MENDOTA

AMERICA'S LUXURY FIREPLACE

Full View Direct Vent Gas Fireplace Insert

With

Premium Texture Fiber Logs Combustion System

INSTALLATION & OPERATING INSTRUCTIONS

NATIONA NFI www.nficertified.org

We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

INTERTEK CM C US Warnock Hersey

MODEL NO. FV44i-PF2
DOCUMENT: FV44i-PF2-0113

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

WHAT TO DO IF YOU SMELL GAS

- **Open windows.**
- **Do not touch electrical switches.**
- **Do not try to light any appliance.**
- **Extinguish any open flame.**
- **Do not use the phone in your building.**
- **Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.**
- **If you cannot reach your gas supplier, call the fire department.**

WARNING

If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

WARNING

Do NOT use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control, which has been under water.

In the Commonwealth of Massachusetts:

- Installation must be performed by a licensed plumber or gas fitter;
- A CO detector shall be installed in the room where the appliance is installed.

CAUTION

THESE INSTRUCTIONS ARE TO REMAIN WITH THE HOMEOWNER.

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual. For assistance or additional information consult a qualified installer, service agency or the gas supplier.

FOR YOUR SAFETY

A qualified installer, service agency, or the gas supplier must perform installation and service.

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

WARNING

Do not operate this appliance with the glass removed, cracked or broken. A licensed or qualified person should do replacement of glass.

WARNING

Mendota gas fireplaces are heat producing appliances. Do not burn wood, paper or other materials in this fireplace. This fireplace is designed as a supplement heat source. It is advisable to have an alternative primary heat supply.

The installation must conform with local codes or, in the absence of local codes, with the current National Fuel Gas Code, ANSI Z223.1, or the current Natural Gas and Propane Installation Code, CSA B149.1

This appliance may be installed in an aftermarket permanently located, manufactured (mobile) home, where not prohibited by local codes.

This appliance is only for use with the type(s) of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

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SPECIFICATIONS

MODEL FV-44i

High Fire - Adj. to - Low Fire

BTUH .....NAT. GAS 40,000 ----- 16,300
BTUH .....L.P. GAS 40,000 ----- 15,300

MAIN ORIFICE.....REAR BURNER: #42 NAT. GAS [#54 L.P. GAS] – FRONT BURNER: #45 NAT. [#55 LP]

MINIMUM FIREPLACE CAVITY SIZE REQUIREMENT: Depends on depth of outer edge returns on Surround/Faceplate
34" WIDE X 24" HIGH X 17-1/8" DEEP

EFFICIENCY.....EXCEEDS D.O.E. EFFICIENCY REQUIREMENTS (A.F.U.E.)
FLUE VENT LINER.....CO-LINEAR - 4" DIAMETER EXHAUST & 3" DIAMETER INLET
NET WEIGHT.....195 lbs.
SAFETY .....AGA CERTIFIED, ELECTRONIC IGNITION IPI SYSTEM
ACTIVATED WITH THERMOSTATIC REMOTE CONTROL.
GAS REQUIREMENTS .....SUPPLY PRESSURE: GAS INLET: 3/8" N.P.T.
NAT. GAS: 7" W.C. [5.0" W.C. MIN., 11" W.C. MAX.]
L.P. GAS: 11" W.C. [11" W.C. MIN., 13" W.C. MAX.]
ELECTRICAL REQUIREMENTS ..... 120 Volts AC, 2 Amps (minimum line voltage allowed 110 Volts AC)

LISTINGS - INTERTEK TESTING SERVICES TESTED TO: ANSI Z21.88-2005 – CSA2.33-2005 – CAN/CGA 2.17-M91

Gas appliances must be tested and certified by a nationally recognized testing and certification agency to American National Standards Institute - ANSI Gas Appliance Safety Standards. . The Mendota Gas Fireplace Insert has been tested and certified by Intertek Testing Services. 8431 Murphy Drive, Middleton, WI 53562.

INSERT INCLUDES CERAMIC COMBUSTION SYSTEM, DUAL HOT AIR BLOWERS, PREMIUM 8-PIECE FIBER LOG SET & COALS, NEO-CERAM GLASS,THERMOSTATIC REMOTE ELECTRONIC IGNITION, AGA CERTIFIED SAFETY SYSTEM.

SAFETY AND WARNING INFORMATION

READ and UNDERSTAND all instructions carefully before starting the appliance. ***FAILURE TO FOLLOW*** these instructions may result in a possible fire hazard and will void the warranty.

Any safety screen or guard removed for servicing must be replaced before operating this appliance.

DO NOT USE this appliance if any part has been under water. Immediately ***CALL*** a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control, which has been underwater.

THIS UNIT IS NOT FOR USE WITH SOLID FUEL.

Installation and repair should be ***PERFORMED*** by a qualified service person. The appliance and venting system should be ***INSPECTED*** before initial use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding, material, etc. It is ***IMPERATIVE*** that the unit's control compartment, burners, and circulating air passageways ***ARE KEPT CLEAN*** to provide for adequate combustion and ventilation air.

Always ***KEEP*** the appliance clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

NEVER OBSTRUCT the flow of combustion and ventilation air. Keep the front of the appliance ***CLEAR*** of all obstacles and materials for servicing and proper operation.

Due to high temperature, the appliance should be ***LOCATED*** out of traffic areas and away from furniture and draperies. Clothing or flammable material ***SHOULD NOT BE PLACED*** on or near the appliance.

Children and adults should be ***ALERTED*** to the hazards of high surface temperature and should ***STAY AWAY*** to avoid burns or clothing ignition. Young children should be ***CAREFULLY SUPERVISED*** when they are in the same room as the appliance.

These units ***MUST*** use one of the vent systems described in the Installing Your Fireplace section of the Installers Guide. ***NO OTHER*** vent systems or components ***MAY BE USED***.

This gas fireplace and vent assembly ***MUST*** be vented directly to the outside and ***MUST NEVER*** be attached to a chimney serving a separate solid fuel-burning appliance. Each gas appliance ***MUST USE*** a separate vent system. Common vent systems are ***PROHIBITED***.

If the vent-air intake system is disassembled for any reason, reinstall per the instructions provided for the initial installation.

The vent system assembly for this fireplace must be periodically examined by a qualified service agency.

INSPECT the external vent cap on regular basis to make sure that no debris is interfering with the airflow. The flow of combustion and ventilation air not to be obstructed

DO NOT abuse the glass door by striking the glass, slamming the door shut, etc.

Use only authorized parts and materials obtained from Johnson Gas Appliance Company when replacing defective or damaged glass.

DO NOT USE abrasive cleaners on the glass door assembly. ***DO NOT ATTEMPT*** to clean the glass door when it is hot.

Turn off the gas before servicing this appliance. It is recommended that a qualified service technician perform an appliance check-up at the beginning of each heating season.

DO NOT place furniture or any other combustible household objects within 36 inches of the fireplace front.

CAUTION: Do not operate the appliance with glass removed, cracked or broken. Replacement of the panel(s) should be done by a licensed or qualified service person.

CONGRATULATIONS

You are the owner of a world-class heat producing gas direct vent sealed combustion fireplace.

This elegant, highly efficient Fireplace will be a constant source of comfort and fascination. It will be the focal point of beauty and interest in your home.

The Mendota Gas Fireplace is a true heating appliance incorporating the traditional aesthetics of fireplace fire viewing with the controllability and fuel efficiency of a home gas furnace. Of particular interest is the low fuel consumption and brilliant fire viewing afforded by the realistic Premium Fiber wood fire-like combustion system.

Carefully read the following instructions prior to actual installation. Proper Mendota Gas Fireplace installation and operation will give you years of safe, trouble free comfort and enjoyment.
If you have any questions regarding installation or operation of your Mendota Fireplace please contact your local dealer.

...CAUTION...

Due to high temperatures, the Fireplace should be located out of traffic and away from furniture and draperies. Children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid burns or clothing ignition. Young children should be carefully supervised when they are in the same room as the Mendota Gas Fireplace.

Clothing or other flammable material should not be placed on or near the Fireplace.

Any safety screen or guard removed for servicing an appliance must be replaced prior to operating this appliance.

The Mendota Gas Fireplace is a powerful and efficient heating unit. It has been designed as a major source of supplemental heat. As with any mechanical appliance there can be component shut downs. It is advisable to have an alternate heat supply.

Installation, repair and any adjustments to logs or burner must be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, carbon build-up, etc. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean. The burner and pilot flames and logs should be visually checked periodically.

DO NOT use this appliance if any part has been under water or exposed to moisture corrosion. Immediately call a qualified service technician to inspect the Fireplace and replace any part of the control system and any gas control, which has been under water. DO NOT use this fireplace if the burner does not light immediately. Turn unit off and call Mendota approved service person if there is any delay in burner light off.

It is Johnson Gas Appliance Company's policy that no responsibility is assumed by the Company or by any of its employees or representatives for any damages caused by an inoperable, inadequate, or unsafe condition which is the result, either directly or indirectly, of any improper operation, installation or servicing procedures.

Building Permit and Installation Inspection Approval Requirements

All installations of Mendota Fireplaces and Inserts must comply with all the requirements stated in this Installation and Operating Instructions Manual. The Dealer and/or installer must also obtain all required Building Permits and Inspection Approval from the local building inspection department or the local body having jurisdiction. In order to validate warranty coverage, Mendota may require facsimile copies of the Building Permit and Inspection Approval forms. Failure to provide adequate proof that the installation conforms to all local requirements and the requirements stated in the Installation and Operating Instructions Manual will void all applicable warranty.

INSTALLER: THESE INSTRUCTIONS ARE TO REMAIN WITH HOMEOWNER.

HIGH ALTITUDE INSTALLATION INFORMATION: Prior to installing at altitudes higher than 7500, please contact the Mendota technical service department for specific venting requirements and venting restrictions.

GENERAL INFORMATION

Your Mendota Gas Fireplace Insert has a state-of-the-art direct vent, sealed combustion system. This advanced, highly efficient system brings in outside air for combustion, has a separate exhaust vent and efficiently heats and re-circulates room air. The Mendota system maintains high air quality, maximizes efficiency and assures proper operation.

SAFETY AND STRUCTURAL CONCERNS:

The FV-44i Fireplace Insert must be installed and serviced by a Mendota approved serviceperson. Any adjustments to burner, pilot, logs or coal bed must be made by a Mendota approved service person. If pilot goes out, always wait five (5) minutes before relighting pilot. The flame must not "lift" off the burner.

ALWAYS USE MENDOTA FACINGS, MENDOTA VENT SYSTEMS AND MENDOTA APPROVED VENT CAPS. ONLY DOORS CERTIFIED WITH THE APPLIANCE SHALL BE USED.

A non-combustible hearth protector is required and must extend a minimum of 16" in front of the fireplace when this insert is installed at floor level.

VENTING REQUIREMENTS

Use only Mendota specified vents and vent caps when installing your fireplace insert. All vent pipe sections must be tight and leak proof.

HEATING PERFORMANCE

The Mendota FV-44i I Fireplace Insert is a true, high efficiency gas heater. The Mendota Insert will usually heat a large area of your home if situated to maximize heat circulation. **NOTE:** The Mendota Insert is designed as a supplemental heat source. It should not be used as a whole house heating system. Supplemental air movement considerations for maximizing heat circulation are: through-the-wall grills, floor grills, ceiling fans, or the continuous operation of central heating and cooling blowers. The most EFFICIENT and successful method for overall heat distribution is a ceiling fan. "Customer Information". The heat output of the Insert can be reduced by using the down arrow on the Remote Control. Heat output can be further reduced by turning off the rear burner using the remote control. The blowers can also be turned down to reduce heat output.

ELECTRICAL REQUIREMENTS

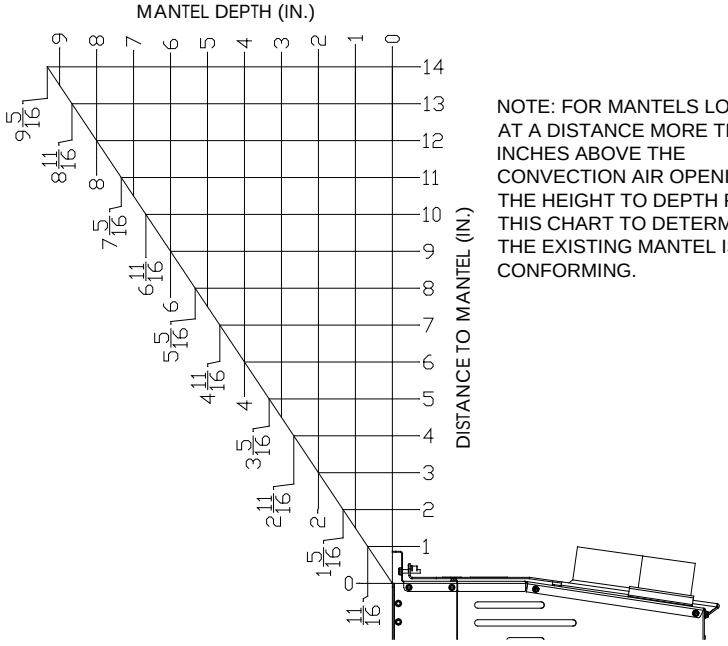
A 120-volt electrical service must be supplied at the fireplace location at the time of installation on the left side and connected to the color coded wires within the electrical junction box. Alternatively, you may also connect the 8 foot extension cord supplied with this fireplace to the junction box and use it as an AC power source.

This appliance must be electrically grounded in accordance with local codes or in the absence of local codes, with the National Electric Code ANSI/NFPA 70-1987.

APPROVED MANTEL PROFILES

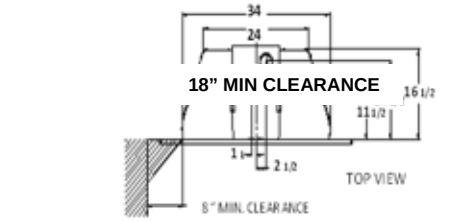
The existing Combustible Mantel must fall within the approved mantel profile chart. If it does not, either remove and relocate the combustible mantel at an approved height or add a 20 gage metal shield underneath the combustible mantel that extends the full width and depth of the combustible mantel. Provide a 1” active air space between the metal shield and the bottom surface of the combustible mantel. Use ceramic spacers to create the 1” active air space.

APPROVED MANTEL PROFILES

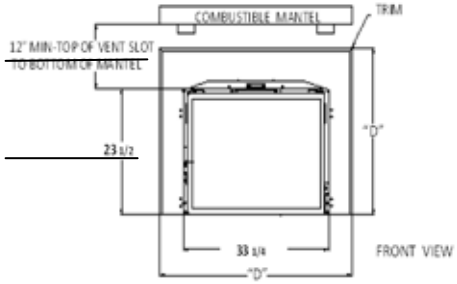


NOTE: FOR MANTELS LOCATED AT A DISTANCE MORE THAN 14 INCHES ABOVE THE CONVECTION AIR OPENING, USE THE HEIGHT TO DEPTH RATIO IN THIS CHART TO DETERMINE IF THE EXISTING MANTEL IS CONFORMING.

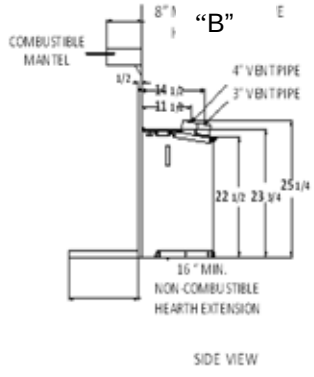
MENDOTA FV-44i GAS DIRECT VENT FIREPLACE INSERT
SPECIFICATIONS & CLEARANCES



"A"



"B"



SIDE VIEW

Minimum Allowable Fireplace Opening:
34" wide X 24" high X 17-1/8" Deep
(Varies based on outer edge return depth of Basix/ Faceplate)

FV-44i Surrounds Dimensions

	A		B	
	Inches	mm.	Inches	mm.
No Trim	29	736	40	1016
	31	788	44	1118
	33	838	48	1220
	36	914	52	1321
With Black or Brass Trim	30 1/16	738	44 1/8	1019
	31 1/16	792	44 1/8	1122
	33 1/16	843	48 1/8	1224
	36 1/16	920	52 1/8	1326

The solid-fuel fireplace chimney must be clean and in good working order and is constructed on non-combustible materials

Chimney cleanouts must fit properly.

The refractory, glass doors, screen, and log grates can be removed from the solid-fuel fireplace to accommodate the gas insert.

Smoke shelves, shields, and baffles can be removed if attached with mechanical fasteners.

Trim panels and surrounds shall not seal ventilation openings in the fireplace.

WARNING: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

Cutting of any sheet metal parts on the solid-fuel fireplace is prohibited.

NOTE: Installer must attach the supplied warning label, included in the instruction packet, to the inside of the fireplace before installing insert.

INSTALLATION INSTRUCTIONS

CAUTION: Each installation must conform to all local, state and national codes. Refer to the national fuel gas code and local zoning and code authorities for details on installation requirements. The Mendota Inserts must be vented to the outside in accordance with the latest edition of the National Fuel Gas Code. In the absence of local codes, the installation must conform with National Fuel Gas Code ANSI Z223.1 (NFPA 54), or Canadian Code CAN1-B149 or most current edition, also known as NFPA 54. Do not connect this Insert to a chimney flue serving a separate solid fuel or gas-burning appliance.

1. Remove glass doors, metal fire screens, etc. from existing fireplace. Be sure there is 12" minimum distance from top of upper grill to bottom of mantel; see Specifications (Pg.6 & 5), and a 16" minimum non-combustible hearth extension in front of the glass surface if a raised hearth is not supplied. (See pg. 11 for "Raised Hearth").

2. Remove any additional framework or other obstructions in the existing fireplace opening and burning area. Also remove any chimney cap from top of chimney so that vent liner can be installed freely.

3. Before Insert is installed, have gas supplier or contractor run gas line to the existing fireplace. Be sure gas plumbing instructions [see Pg. 11 & 13 are carefully followed. Gas supply may enter fireplace on either side or back of fireplace, whichever is most convenient and accessible. Electrical service (120 volt) should also be supplied to the left-side of the appliance.

4. The entire chimney should be swept to remove creosote, soot and any obstructions (bird nests, etc.).

5. Open fireplace damper. If damper opening is large enough to accept the 4" and 3" flue liners, permanently secure damper in "open" position. **NOTE:** *Massachusetts requires that the flue damper must be removed or permanently welded in the "open" position.*

6. If damper opening is too small for the 4" & 3" flue liners, it will be necessary to remove the damper handle and the damper plate. Some damper plates are held in place by a pinned hinge that can be released easily by tapping out the pin with a hammer and punch. Others may be held in place by a screw or bolt, or pivots may be cast into the damper housing. The latter types may be harder to get out and may require sawing or breaking out. [NOTE: if flue size is 6" (127 mm) or less, or if severe offsets occur, or a significant mortar slop is evident between the liners, try to snake liner down the chimney to the top of the damper housing before breaking out damper plate and housing.]

CAUTION: If the 4" & 3" flue liners cannot be installed in an extremely tight chimney DO NOT proceed with installation.

7. If damper opening is narrower than 4-1/2" to 5" (114 mm to 127 mm) and if local code authorities allow, loosen and remove mortar behind back side of damper housing in the center of the opening enough to get the gripping teeth of a pipe wrench over the flange of the damper housing (for cast iron housings). Tighten the wrench snugly, and kick down on the wrench handle to break out a half moon shaped piece of the damper housing, enough to easily fit the flex liner through it. If the opening is wide enough, the break out is not necessary.

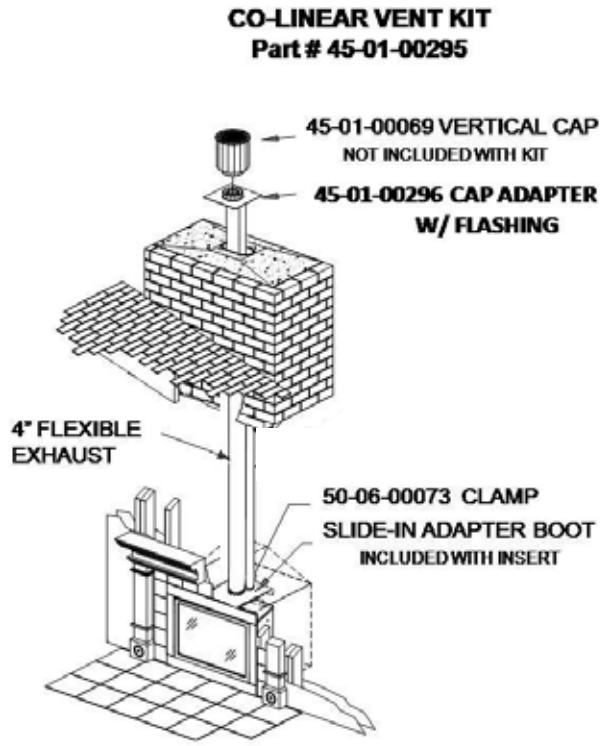
8. **Install Insert only in chimney heights of 12' (minimum) to 35' (maximum) -- as measured in step 9, below.**

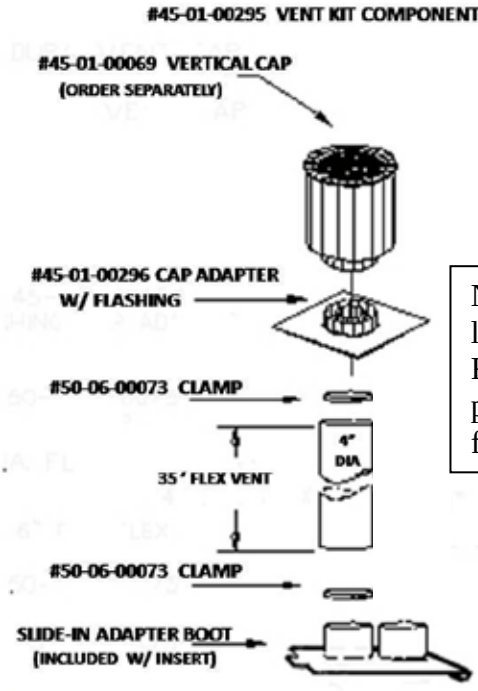
9. Measure the chimney height from the top of the chimney (or the existing flue liner) to a point 24" (610 mm) above the floor of the fireplace hearth. It may be necessary to drop a rope and measure the rope itself. Be sure to allow for all offsets in existing chimney. Cut the 4" diameter flex liner (s) to this measured length.

FLUE VENTING

The FV-44i Insert must be vented vertically to the outside and must use the Mendota Co-Linear flexible ducting system. **Note: In the USA, run only the 4" exhaust liner to the Vertical Vent Cap. In the USA, run the 3" air intake past the existing chimney damper about 2 feet. Pack around the liners at the damper area to create an air tight seal. In the USA, do not run the 3" air intake liner to the Vertical Cap.**

NOTE: THE INSERT IS DESIGNED, TESTED AND LISTED FOR OPERATION ONLY WITH MENDOTA INSERT VENTING COMPONENTS AS LISTED IN FIGURES BELOW:





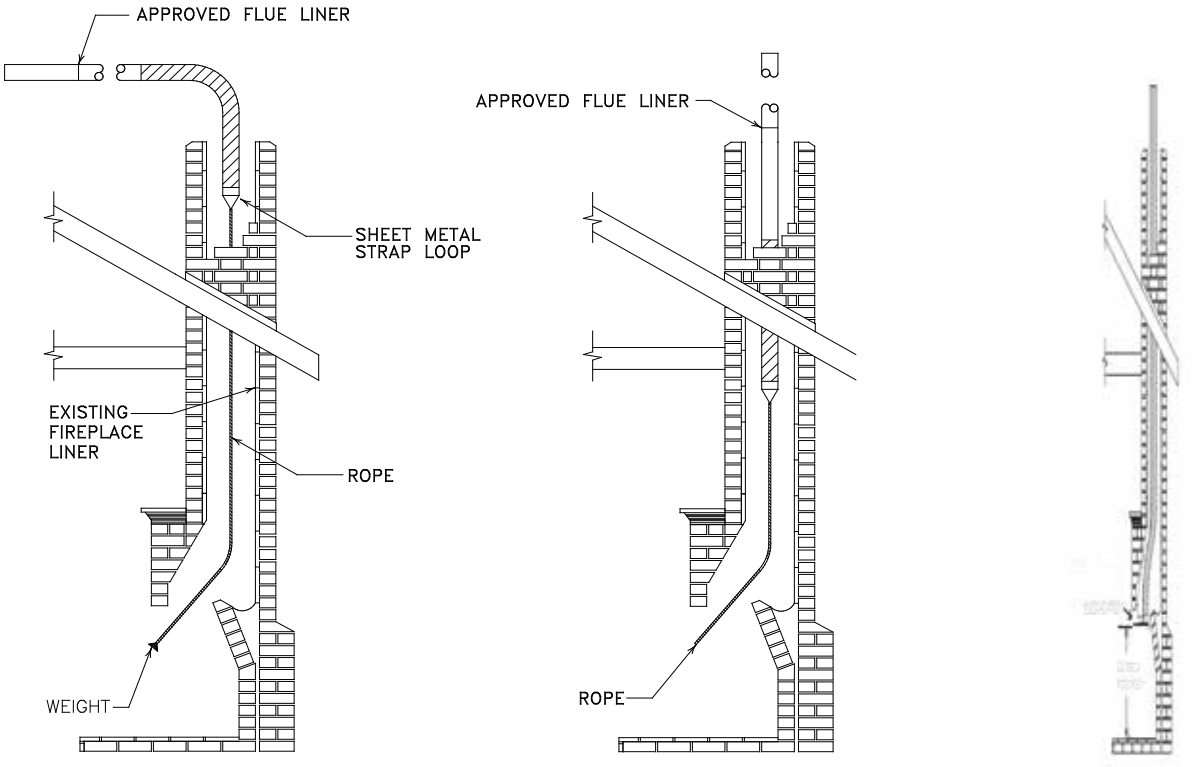
NOTE: In the USA, run the 4" exhaust liner from Insert Top to the Vent Cap. Run 3" exhaust liner from Insert Top past existing chimney damper about 2 feet.

Chimney Flashing and cap

(See FIGURE BELOW) The vent kits include a trim-able flashing. Measure, trim and shape flashing to fit the existing flue liner. This flashing prevents water and small animals from entering area between the chimney liner and flue liner. Plan for 1" to 1-1/2" (25 mm to 38 mm) overlap on each side. Center the flashing and mark it about 3" (75 mm) larger in each dimension than the existing chimney. Trim the notch with snips and bend edges with hand seaming tool, metal break or pliers.

12. Attach a sheet metal strap loop to the flex end of the liner(s) and tie a rope to it. Two installers should proceed to the roof and drop the rope (with weight on the end to make sure it goes all the way down) and insert the 4" liner(s) past the flexible portion, into the existing chimney – SEE BELOW:

NOTE: The 3" liner shall be cut at about 5 feet length and only stubbed into the chimney past the damper, from below.



13. One installer should then return to the fireplace opening and pull the rope to guide the liner(s) into place through the smoke shelf and the damper opening to a point 22" (560 mm) above the fireplace hearth. The person below should wear leather gloves and Safety Glasses during this process to avoid being cut and to safeguard eyes from flying debris.

CAUTION: WHEN USING FLEX ALUMINUM LINER, USE EXTREME CAUTION WHEN STRETCHING LINER AROUND OFFSETS SO AS NOT TO RUPTURE LINER.

14. Remove the Vent Adapter by removing two 5/16” Hex Bolts and sliding Vent Adapter towards rear of Insert.

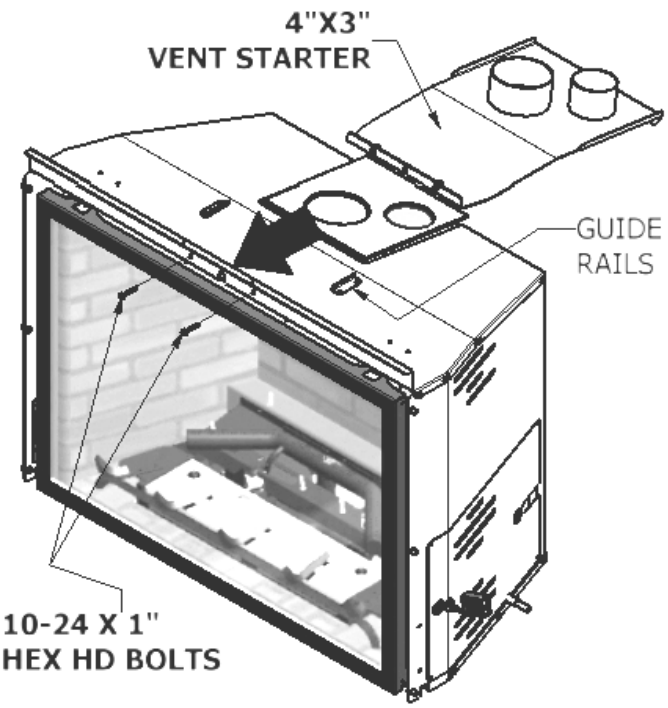
15. Tightly secure 3” and 4” flex vents with clamps provided. Seal vent cap/flashing to top of chimney with weatherproof sealer. Seal areas between flex pipes and existing chimney, at damper area, with unfaced fiberglass insulation.

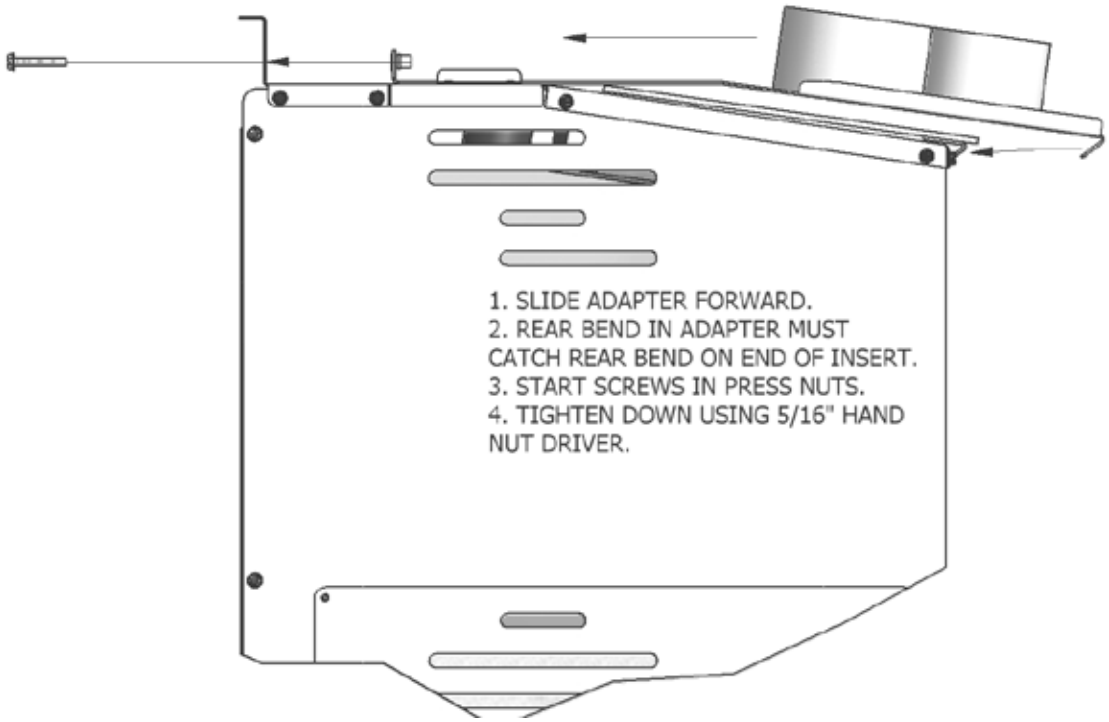
16. Carefully slide Insert into the fireplace opening (Note: Plug in the AC Power cord to a 110 volt AC receptacle inside the fireplace opening or extend it out and connect to a grounded wall outlet.

17. Slide Vent Adapter forward between guide rails. Vent Adapter’s front flat section should contact insert top as you slide the Vent Adapter forward.

18. Use Glass Latch Tool to grab Vent Adapter through slot and hole provided. As you apply downward pressure, pull Vent Adapter forward until front flange on Vent Adapter is about ½” away from front lip on Insert.

19. Slide 5/16” Hex Bolts through holes in face of Insert and start one Bolt in each of the two press nuts on Vent Adapter Flange. Using a 5/16” Hex Hand Driver, tighten the hex bolts a few turns at a time alternating between the two hex bolts until the screws are hand tight and vent adapter is pulled fully forward.




1. SLIDE ADAPTER FORWARD.
2. REAR BEND IN ADAPTER MUST CATCH REAR BEND ON END OF INSERT.
3. START SCREWS IN PRESS NUTS.
4. TIGHTEN DOWN USING 5/16" HAND NUT DRIVER.

20. You are now ready to hook up the Insert to gas supply. Be sure gas plumbing instructions and all state and local codes have been carefully followed. Be sure all items on Installation Check-Off List have been completed.

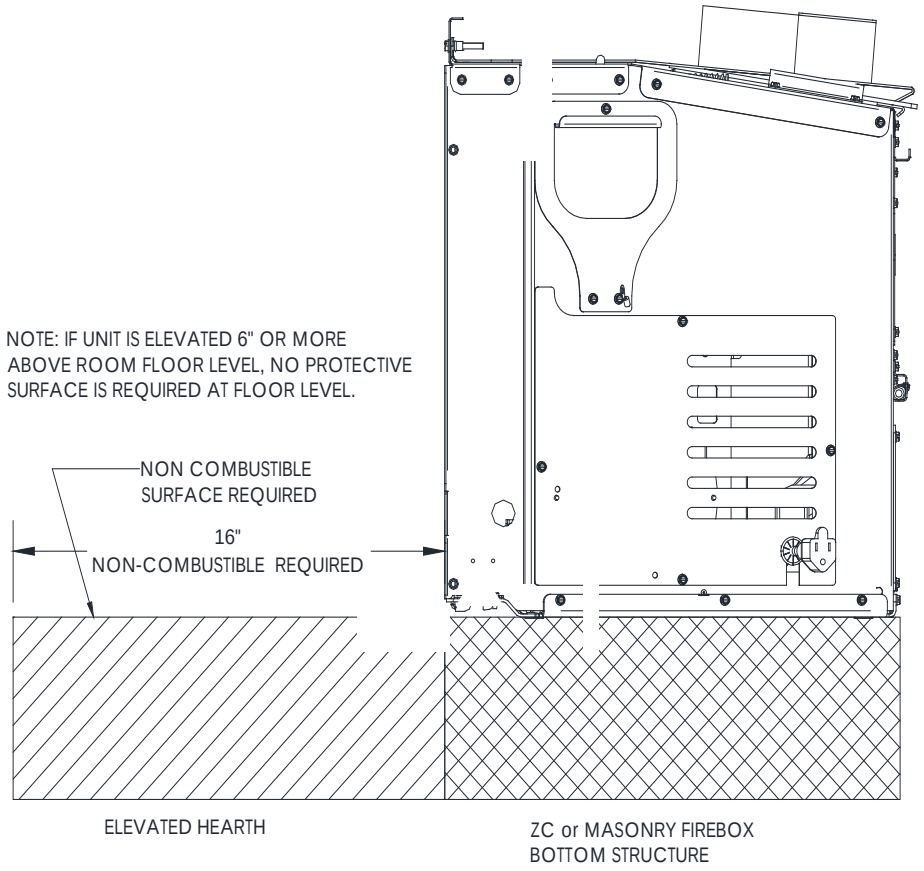
NOTE: AGA APPROVED FLEX LINES ARE APPROVED FOR USE WITH MENDOTA INSERTS.

21. Carefully slide the Insert into place in the fireplace opening. At this time, check that Insert is level and plumb with the fireplace opening and positioned in the middle of the opening. If Insert is unsteady or needs leveling, the unit may need to be "shimmed with washers under the bottom corners of insert.
22. The proper Insert Faceplate can now be placed in position. Assemble surround by following instructions supplied with faceplate kit. Select the appropriate size of faceplate to cover the area between the Insert and existing fireplace opening.

IMPORTANT

INSTALLATION, SERVICING AND REPAIR MUST BE DONE BY A QUALIFIED SERVICE PERSON. THE INSERT SHOULD BE INSPECTED AT LEAST ANNUALLY BY A PROFESSIONAL SERVICE PERSON. MORE FREQUENT CLEANING MAY BE REQUIRED DUE TO EXCESSIVE LINT FROM CARPETING, BEDDING MATERIAL, ETC. IT IS IMPERATIVE THAT THE CONTROL COMPARTMENT BURNERS AND CIRCULATING AIR PASSAGEWAYS OF THE INSERT BE KEPT CLEAN.

RAISED HEARTH SPECIFICATIONS


NOTE: IF UNIT IS ELEVATED 6" OR MORE ABOVE ROOM FLOOR LEVEL, NO PROTECTIVE SURFACE IS REQUIRED AT FLOOR LEVEL.
NON COMBUSTIBLE SURFACE REQUIRED
16"
NON-COMBUSTIBLE REQUIRED
ELEVATED HEARTH
ZC or MASONRY FIREBOX BOTTOM STRUCTURE

In most installations, a 16" non-combustible protector is required in front of the unit's glass door surface on the floor or raised hearth. This protection can be any non-combustible material such as 24-gauge sheet metal, tile, brick, concrete board, etc. Please note that the required 16" clearance starts at the front face of the glass door. If replacing a wood-burning insert with this gas insert, the existing and approved hearth protection will provide adequate floor protection.

If a raised hearth extends less than 16" in front of this Insert, refer to the diagram above and the following procedure to see if additional floor protection is required.

For installations where the fireplace is raised 6" or more above the floor of the room, or if the existing floor in front of this Insert is non-combustible (stone, brick, etc.), a non-combustible protector is not required. For every 1" that this insert is raised above floor level, you may reduce the floor protection extension by 2".

GAS SUPPLY REQUIREMENTS

NOTE: IF INSERT IS TO BE OPERATED WITH LP GAS, SEE "LP CONVERSION INSTRUCTIONS" SECTION OF THIS MANUAL BEFORE PROCEEDING.

CORRECT GAS PRESSURE AND PROPER GAS SUPPLY LINE SIZING IS IMPERATIVE TO THE SUCCESSFUL PERFORMANCE OF YOUR ENDOTA GAS FIREPLACE INSERT. BE SURE THE GAS SUPPLIER OR PLUMBER CAREFULLY CHECKS FOR CORRECT GAS PRESSURE AND GAS LINE SIZING WHEN INSTALLING THE FIREPLACE INSERT.

IT IS CRITICAL TO CAREFULLY CHECK FOR GAS LEAKS WHEN HOOKING UP THE FIREPLACE INSERT -- CHECK WITH SOAP & WATER SOLUTION.

BE SURE TO INSTALL FLEX GAS LINE WITH BRASS-TO-BRASS FITTINGS TO PREVENT GAS LEAKS AT CONNECTIONS.

GAS SUPPLY PIPING MUST INCLUDE A DRIP LEG TO ELIMINATE THE POSSIBILITY OF CONTAMINANTS ENTERING THE GAS TRAIN. ADHERE STRICTLY TO LOCAL AND NATIONAL CODES.

GAS SUPPLY LINE SIZING

The Mendota Gas Insert comes equipped with a 3/8" N.P.T. [1.0 cm] inlet on the main gas valve. Gas supply piping may enter the cabinet from either the left or rear side. A 48" X 3/8" SS Flex supply line is supplied in the Manual Packet with this Insert.

The proper gas line diameter must be selected to run from the supply regulator to the Insert. Refer to the following table for proper gas pipe diameters.

PIPE LENGTH [FEET]	**SCHEDULE 40 PIPE INSIDE DIA.**		**TUBING, TYPE L OUTSIDE DIA.**	
	NAT.	*L.P.*	*NAT.*	*L.P.*
0-10	1/2" [1.3 cm]	3/8" [1.0 cm]	1/2" [1.3 cm]	3/8" [1.0 cm]
10-40	1/2" [1.3 cm]	1/2" [1.3 cm]	5/8" [1.6 cm]	1/2" [1.3 cm]
40-100	1/2" [1.3 cm]	1/2" [1.3 cm]	3/4" [2.0 cm]	1/2" [1.3 cm]
100-150	3/4" [2.0 cm]	1/2" [1.3 cm]	7/8" [2.3 cm]	5/8" [1.6 cm]
150-200	3/4" [2.0 cm]	1/2" [1.3 cm]	7/8" [2.3 cm]	3/4" [2.0 cm]
NOTE: *Some areas allow copper tubing or galvanized pipe - check with local approval agencies and codes NEVER use plastic pipe.*				

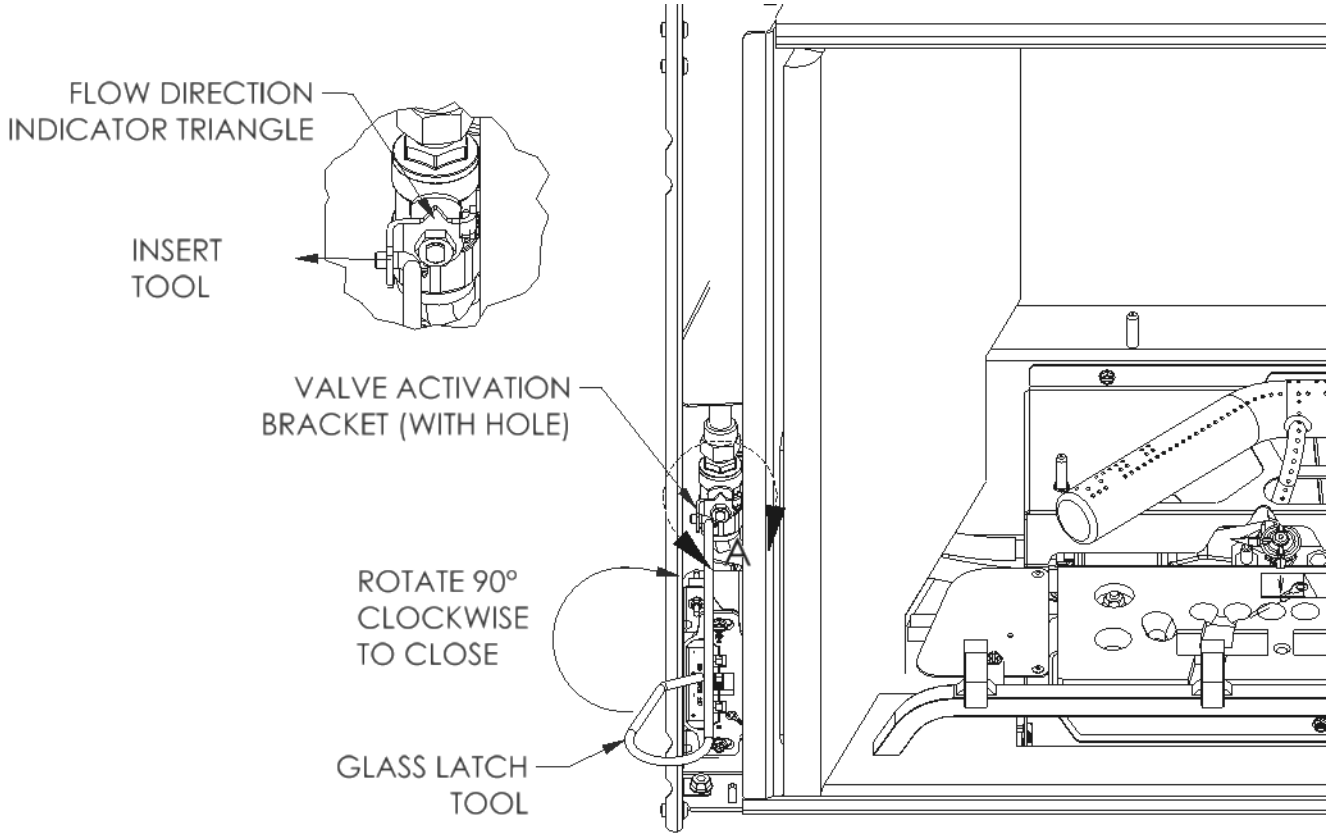
GAS PRESSURE CHECKING REQUIREMENTS

A pressure tap for checking gas pressure is located on the main gas valve. A qualified installer should use this fitting for setting the correct gas pressure during initial installation. [See Gas Pressure Chart Pg. 13].

If supply gas pressures exceed 1/2 PSIG [3.5KPA], the appliance must be isolated from its supply with the factory installed manual shut-off valve. This manual shut-off valve must be closed during any supply line pressure testing. Check with your gas supplier or plumber.

If the factory-built fireplace has no gas access hole(s) provided, an access hole 1.5" or less may be drilled through the lower sides or bottom of the firebox in a proper workmanship like manner. This access hole must be plugged with non-combustible insulation after the gas supply line has been installed.

The Manual Gas Shutoff Valve is located within the left-side convection chamber. To manipulate the Manual Gas Shutoff Valve, insert the tip of the glass latch tool into the hole in the VALVE ACTIVATION BRACKET. Rotate the tool Clockwise 90 Degrees or until it stops to fully close the Valve. To Open Valve, insert tool in VALVE ACTIVATION BRACKET rotate tool Counter-Clockwise 90 degrees or until it stops.



GAS PRESSURE REQUIREMENTS

One major cause of operating problems with gas appliances can be improper gas pressure!

Such problems as changes in flame color or configuration, gas pilot or burner outages, intermittent operation, changes in heat output, excessive burner noise, etc. are nearly always the result of changes in gas pressure or improper gas pressure at the time of the installation. The most important item to check during the installation and the first thing to check when problems occur is gas pressure!

Gas supplies normally enter a residence at 1/2 PSI (13" - 15" W.C.) (3. KPA). A regulator is then placed inside the residence, which drops this pressure to 7" W.C. (1.8 KPA) (Nat. Gas). This "inches to inches" regulator is of adequate capacity to service the gas appliances (such as dryer, furnace, etc.). If this regulator's capacity is not sufficient to add the Gas Fireplace, an additional "inches to inches" regulator must be installed for the Fireplace. EXCEPTION: Some codes allow 2-PSI (1.4KPA) supplies to enter the residence, in which case "pounds to inches" regulators are used.

The following table provides information on correct gas pressure requirements. Be sure your gas supplier or plumber carefully follows this table.

	DESIRED INLET PRESSURE	MINIMUM INLET PRESSURE	MAXIMUM INLET PRESSURE
NATURAL GAS	**7.0" W.C.** (1.75 kPa)	5.0" W.C. (1.12 kPa)	11" W.C. (2.61 kPa)
L.P. GAS	**11.0" W.C.** (2.75 kPa)	11" W.C. (2.75 kPa)	13.0" W.C. (3.24 kPa)

TURN GAS VALVE KNOB TO "HIGH" POSITION. GAS PRESSURES MAY VARY PLUS OR MINUS 5%.

*NOTE: FOR HIGH ALTITUDE (ABOVE 5.000 FEET) SOME VARIATIONS IN AIR SHUTTER SETTINGS MAY BE REQUIRED.

Manifold pressure must be taken at the MANIFOLD" tap and inlet pressure at the "SUPPLY" tap **with the burner operating** by a qualified installer.

GAS LEAK TEST REQUIREMENT: It is the responsibility of the installer/service person to assure that each and every gas connection and supply tubing that are a part of this fireplace are leak proof. The qualified/ certified individual connecting the gas supply line, performing pressure tests or performing any service to this fireplace is required to perform a THOROUGH LEAK TEST on ALL gas fittings that are a part of this appliance or the gas supply line connection using soap-water solution or a calibrated combustible gas detector. Failure to perform this leak test may lead to a house fire and/or an explosion. Mendota is not responsible for any damages due to an Installer's failure to conduct a leak test and verify that all connections and supply lines are leak proof.

WARNING: Do not operate appliances with glass front removed, cracked, or broken. Replacement of glass should be done a licensed or qualified service person.

Note: Consult the local or national installation code(s) to assure that adequate combustion and ventilation air is available.

ELECTRICAL REQUIREMENTS

WARNING: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

If this appliance is installed with a three-prong (grounding) plug for protection against shock hazard, it should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from the plug.

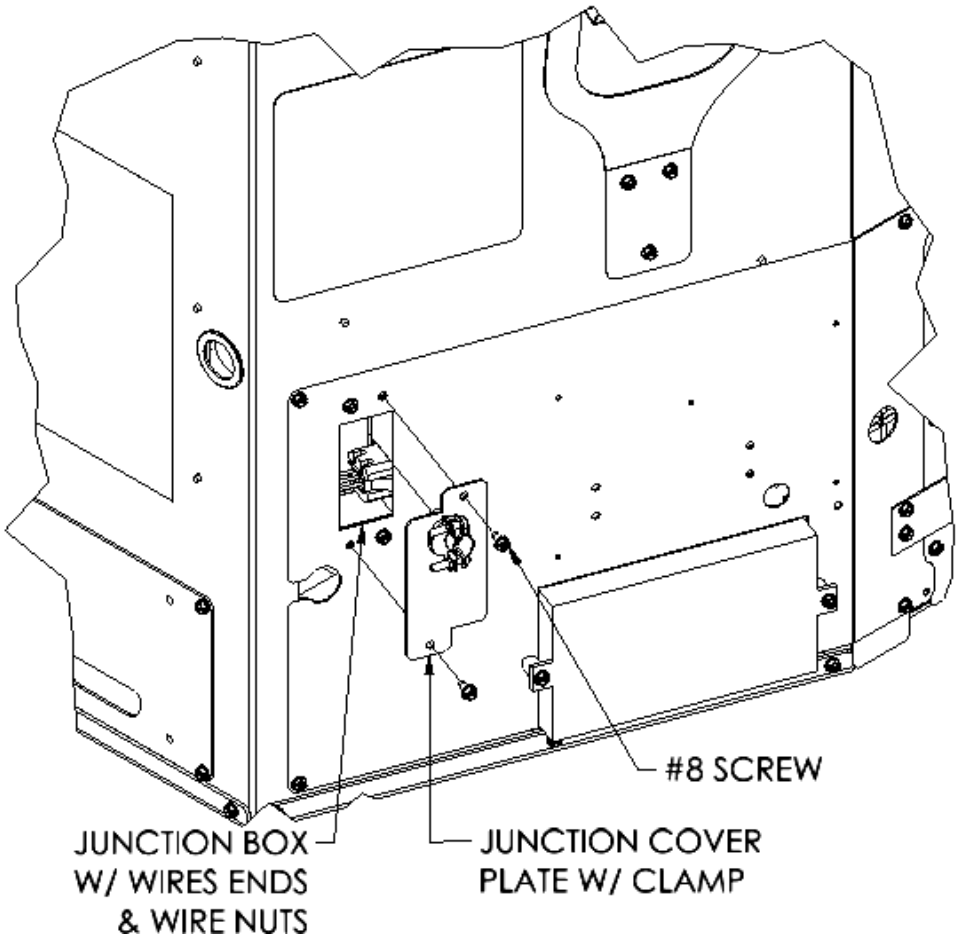
For normal operation, this appliance requires 120 VAC, 2 Amp power or a 6V DC power source.

This appliance is equipped with an electrical junction box on the left side and a 6V DC power inlet connector located directly below the Master Switch on the left side, adjacent to the glass frame's left edge. The Manual Packet accompanying this appliance also includes a 4XAA Battery Pack and a connector wire harness that is designed to be used as the 6V DC power source during electrical power outage conditions.

Planning for AC 120 VAC connection

Two options exist for supplying 120 VAC power to this appliance:

1. Connect the 8 foot grounding plug extension cord supplied in the Manual Packet to the Junction Box on the left side using the three wire nuts supplied and run the extension cord out of the fireplace cavity to a wall electrical outlet in the room.
2. Run Metal Flex Conduit encapsulated Romex 14-2 cable from an approved electrical junction in the home directly to the Junction Box on the left side of this appliance and connect to the three color coded wires within the junction box using the three wire nuts supplied. Make certain to leave a 24-inch long excess loop of the Metal Flex Conduit encapsulated Romex within the fireplace cavity to allow removal of this appliance from the fireplace cavity during cleaning and service work.



HIGH ALTITUDE INSTALLATIONS

For installations from 610-1370 meters (2000-4500 ft.) the orifice sizes (DMS) for natural gas are #43 Front/#46 rear and for propane gas are #55 front/#54 rear. See data plate for additional information. For high altitude installations consult the local gas distributor or the authority having jurisdiction for proper rating methods. If the installer must convert the unit to adjust for varying altitudes, the information sticker must be filled out by the installer and adhered to the appliance at the time of conversion.
Cet appareil est equipé pour des altitudes compries entre 0 et 2000 pieds (0-610 m) seulement

This appliance has been converted for use at an altitude of _____
Orifice size _____ Manifold Pressure _____
Input (Btu/h)_____ Fuel Type _____
Date of conversion _____ Converted by _____
«Cet appreeil a été converti au ____
Injecteur _____
Pression à la tubulure d'alimentation _____
Déoit calorifique _____»

INSTALLATION CHECK OFF LIST

The following check list must be completed prior to initial lighting of the Fireplace Insert

- q Venting system must be installed by a Mendota approved person according to Figure 3, Pg. 8 with
- q Electrical supply and gas supply must be properly installed and must conform to National and Local
- q Check that correct fuel supply is connected to appliance. Check correct gas pressure, correct size gas
- q Proper clearances to combustibles must be maintained.
- q **LEAK TEST REQUIREMENT**: Vibration during shipping and transit of this appliance may cause some

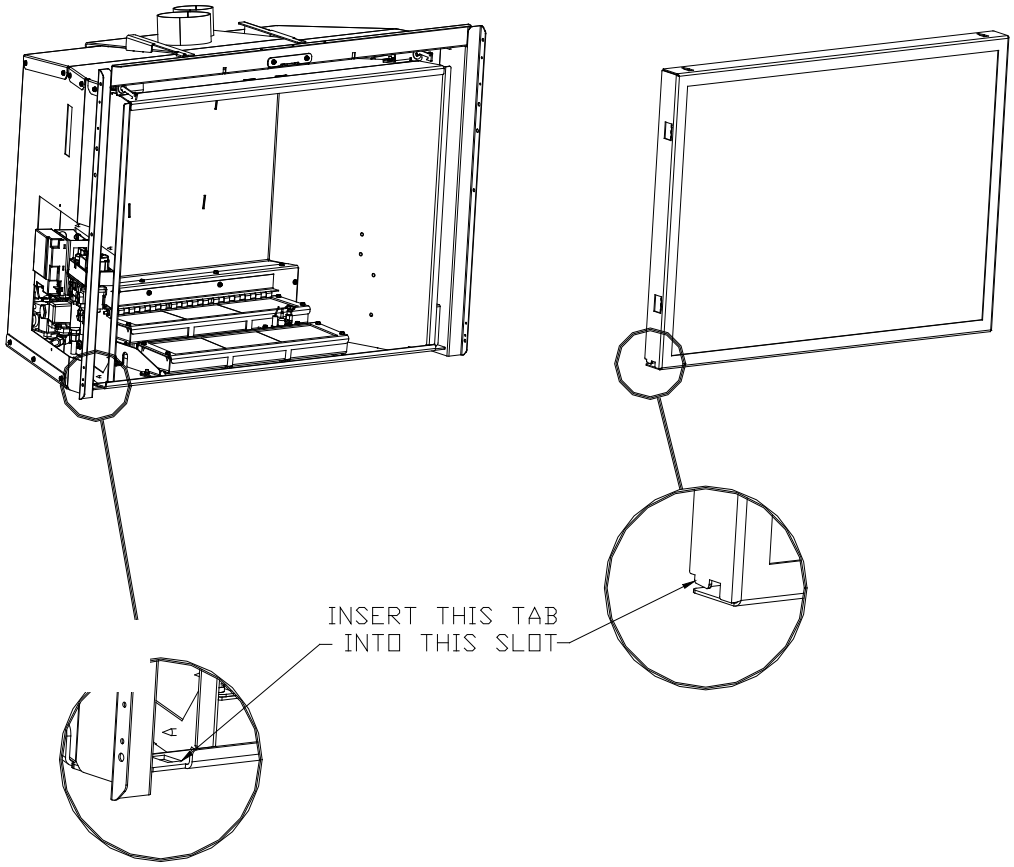
LIGHTING CHECK OFF LIST

Be sure to check these items before final operation of the Fireplace Insert

- q All items on "Installation Check Off List" must be completed.
- q Carefully follow all lighting and log installation instructions. Make certain that burner lights immediately and lights both front and rear burners.
- q DO NOT proceed with operation unless burner cycles "on/off" without delays and the flame is "stable" and not "lifting" off burner.
- q Caution: If pilot goes out be sure to wait a minimum of 5 minutes before relighting.

DOOR REMOVAL AND REPLACEMENT

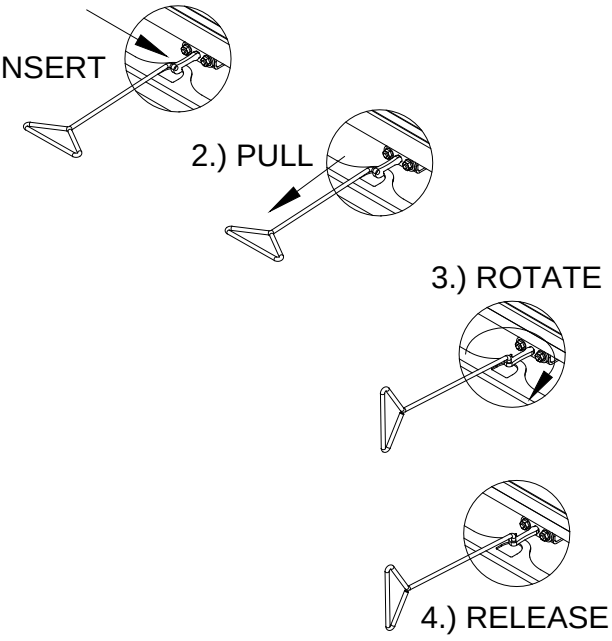
CAUTION: Do not operate the appliance with glass removed, cracked or broken. Replacement of the panel(s) should be done by a licensed or qualified service person.



To Unlatch Glass Frame Latches:

1. Insert Glass Latch Tool into hole in latch (two latches exist at top of glass frame).
2. Pull Glass Latch Tool outward about 3/8".
3. Rotate Glass Latch Tool 90 degrees.
4. Release Glass Latch Tool.
5. Remove Glass Latch Tool.

To Latch Glass Frame Latches, reverse steps 5 to 1, above.

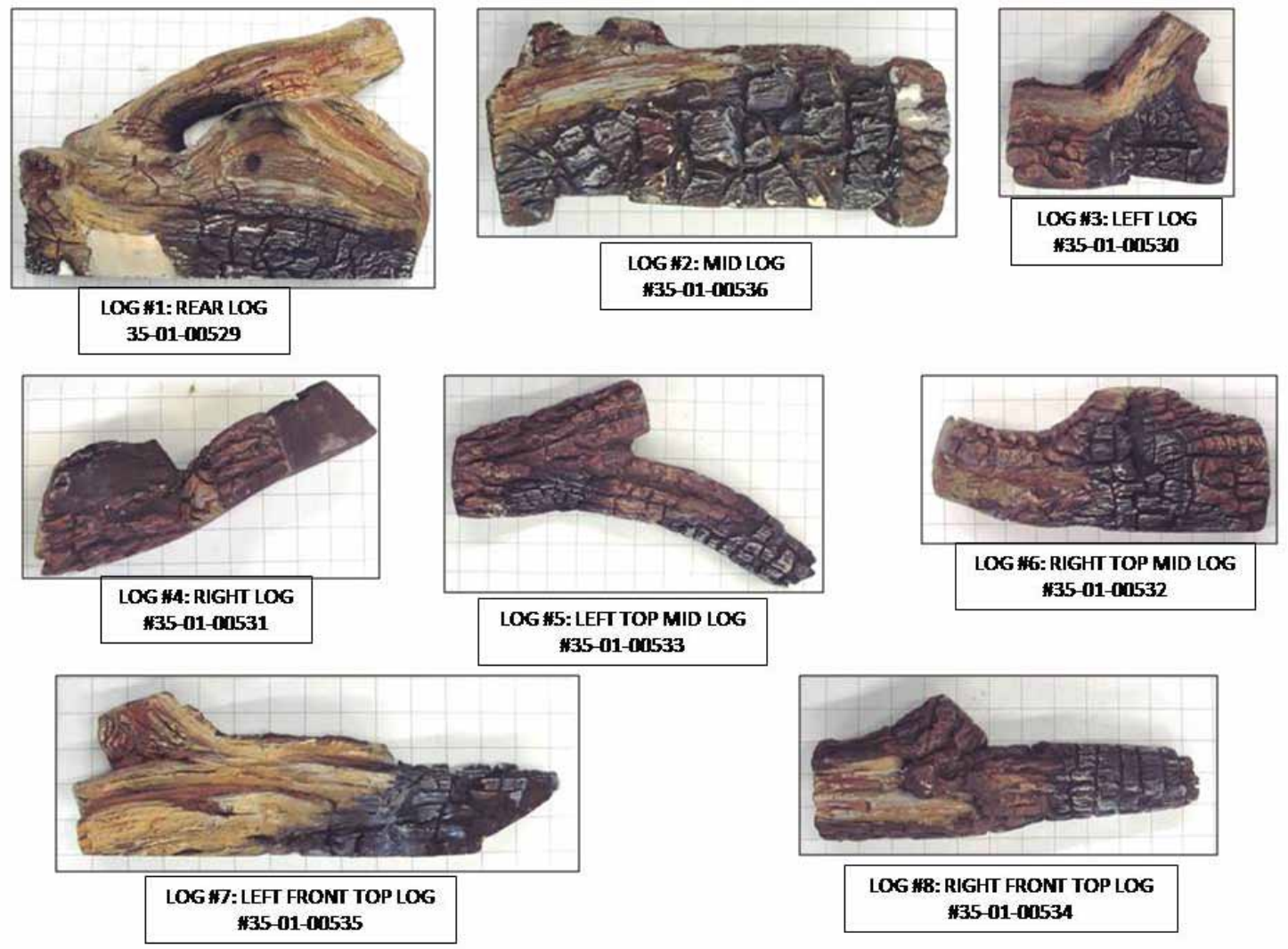


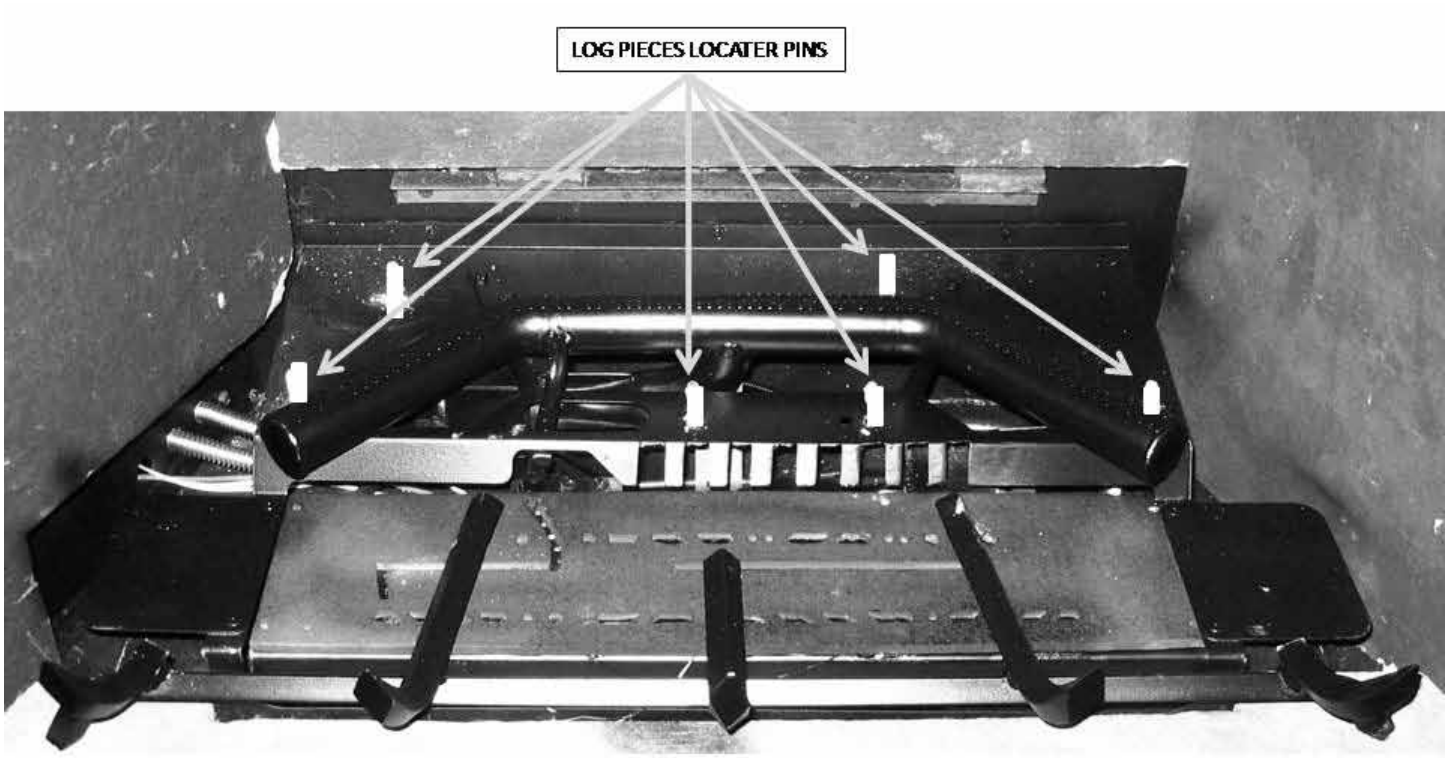
FV-44i LOG SET INSTALLATION INSTRUCTIONS

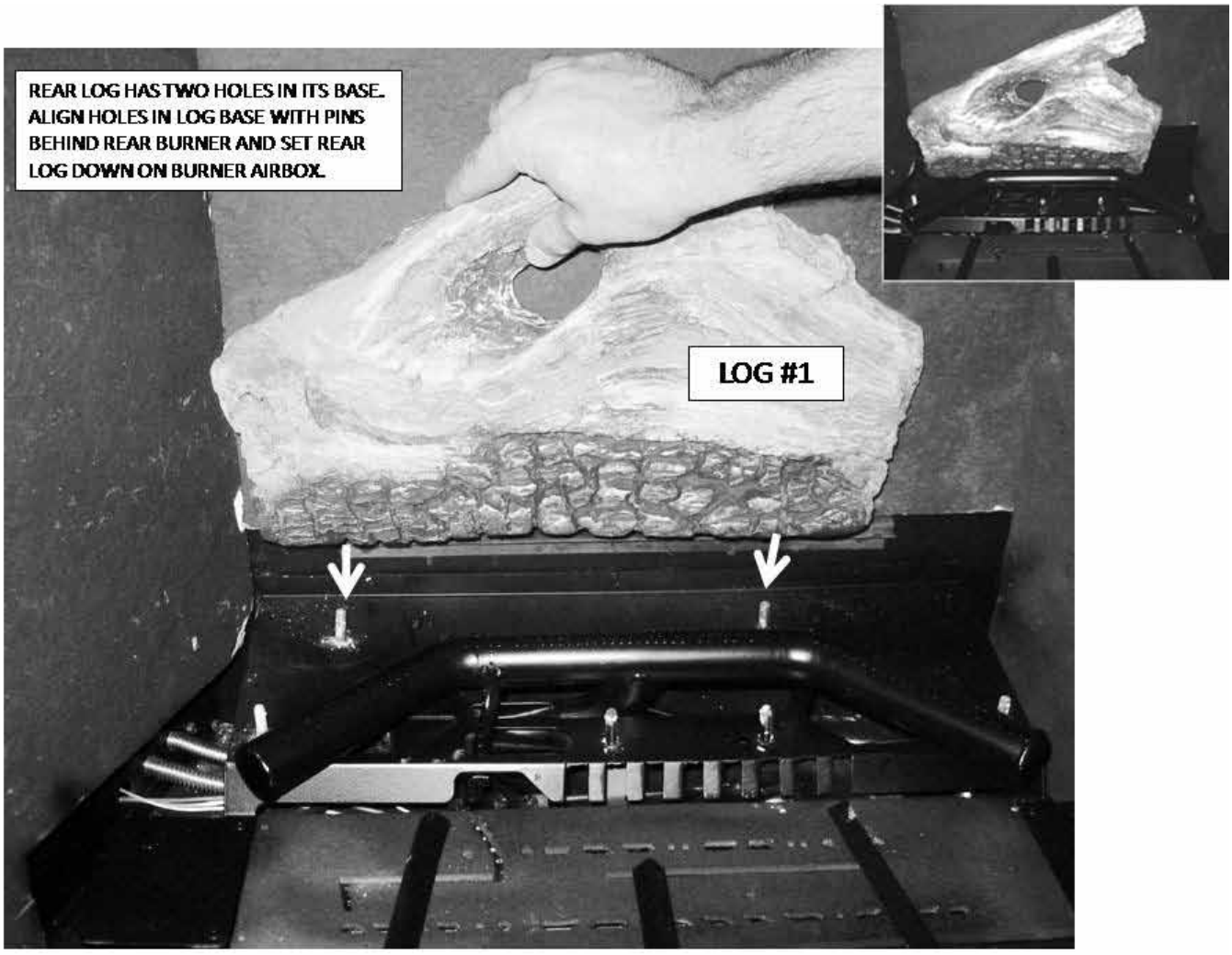
FOLLOW EACH STEP DEPICTED IN THE DIAGRAMS, BELOW, TO INSTALL THE LOG SET.

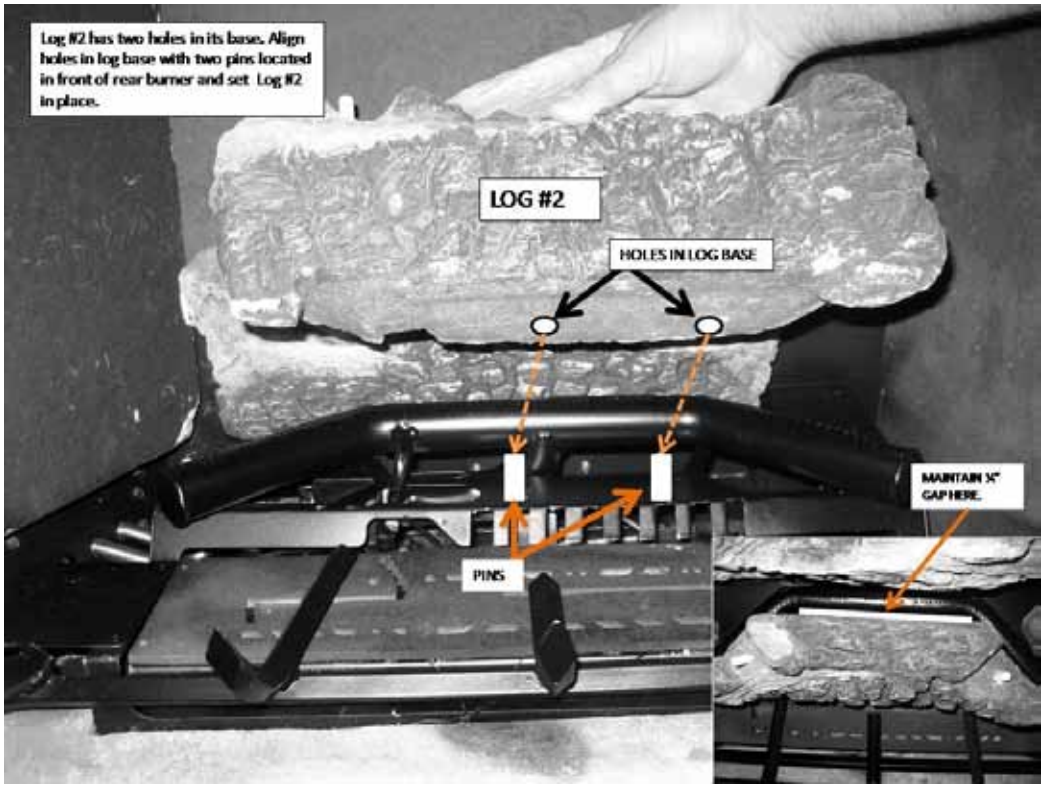
CAUTION: LOGS ARE FRAGILE, HANDLE LOG PIECES WITH CARE.

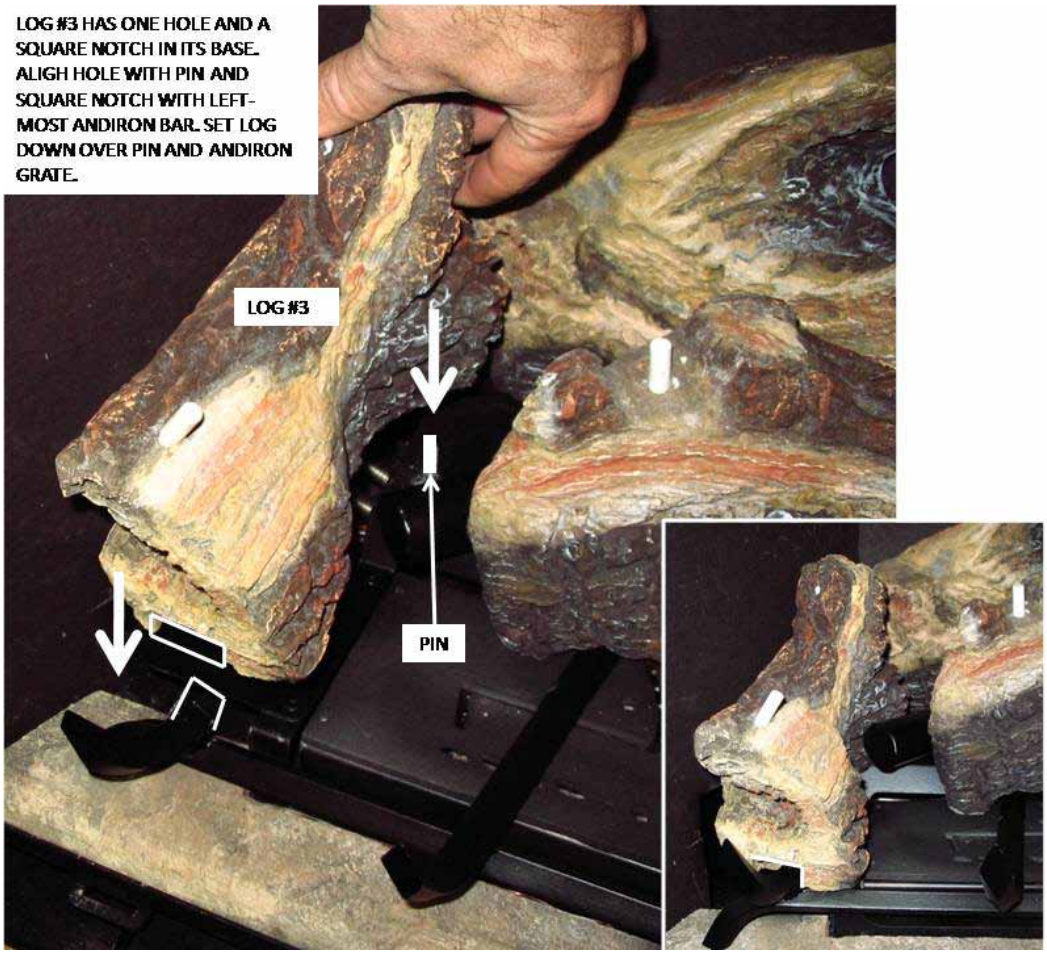
FV-44i LOG SET PARTS IDENTIFICATION DIAGRAM



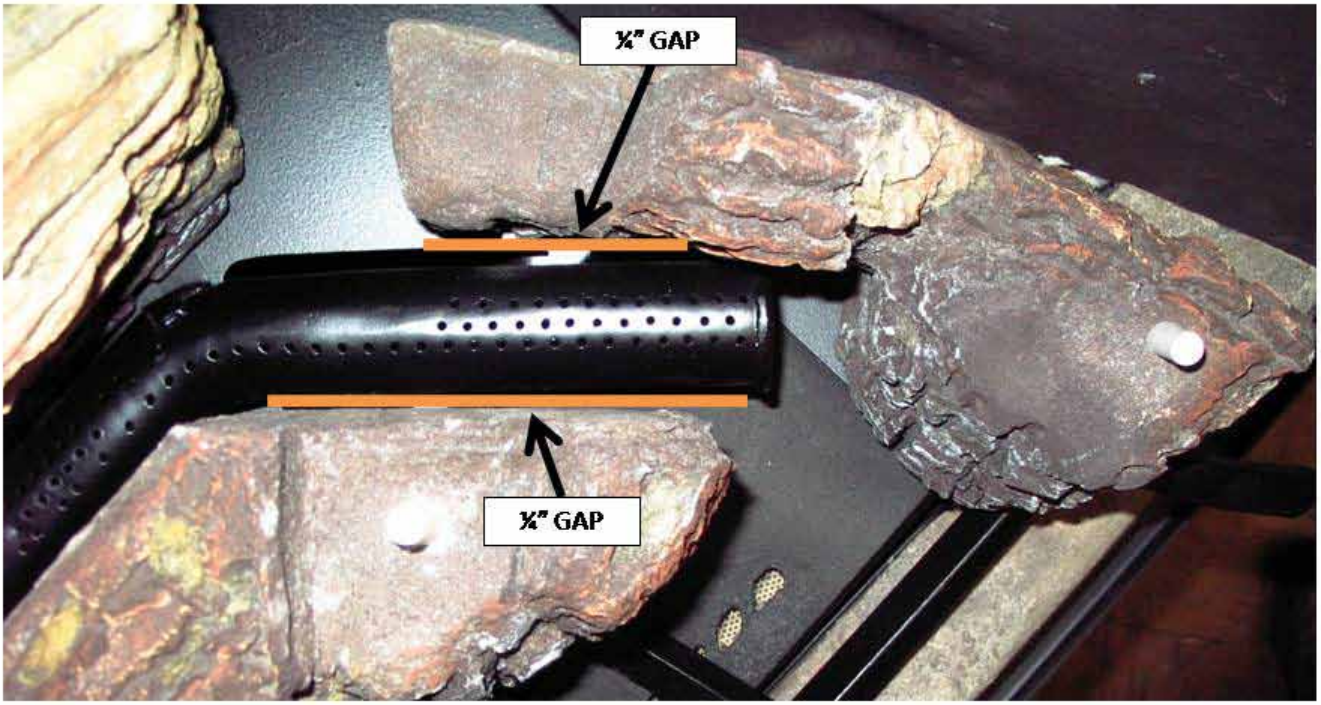

LOG PIECES LOCATER PINS

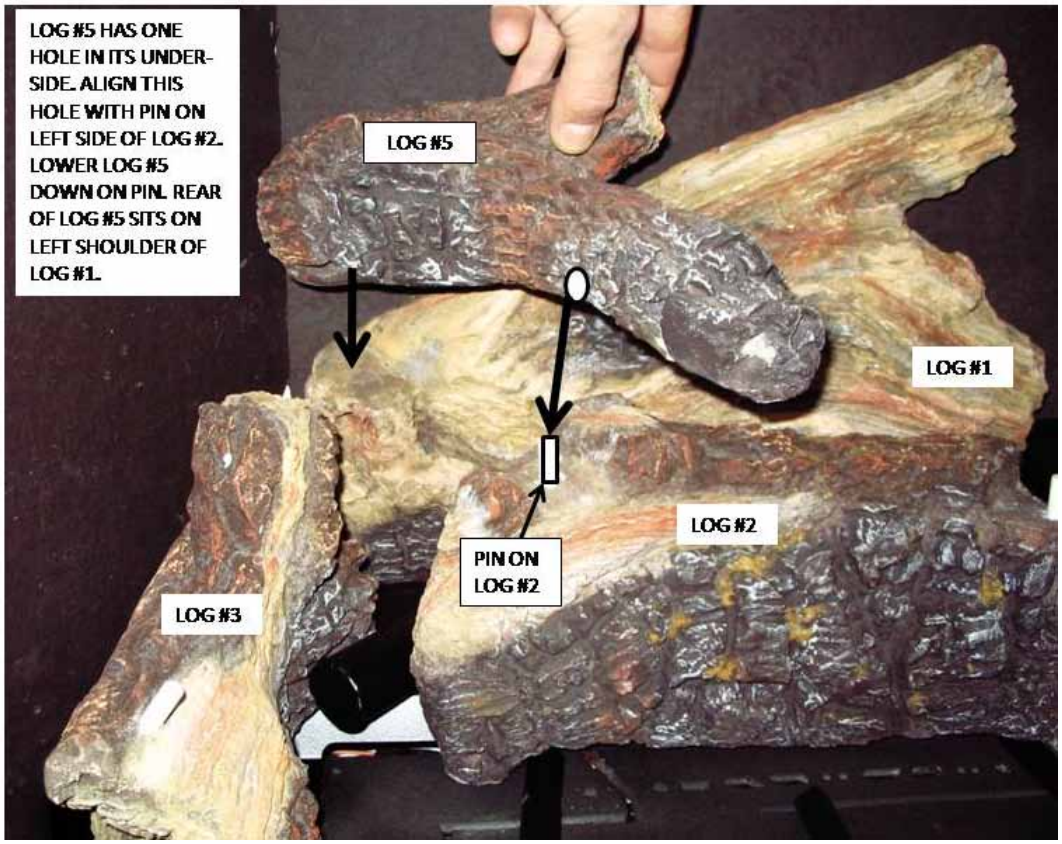

REAR LOG HAS TWO HOLES IN ITS BASE. ALIGN HOLES IN LOG BASE WITH PINS BEHIND REAR BURNER AND SET REAR LOG DOWN ON BURNER AIRBOX.
LOG #1

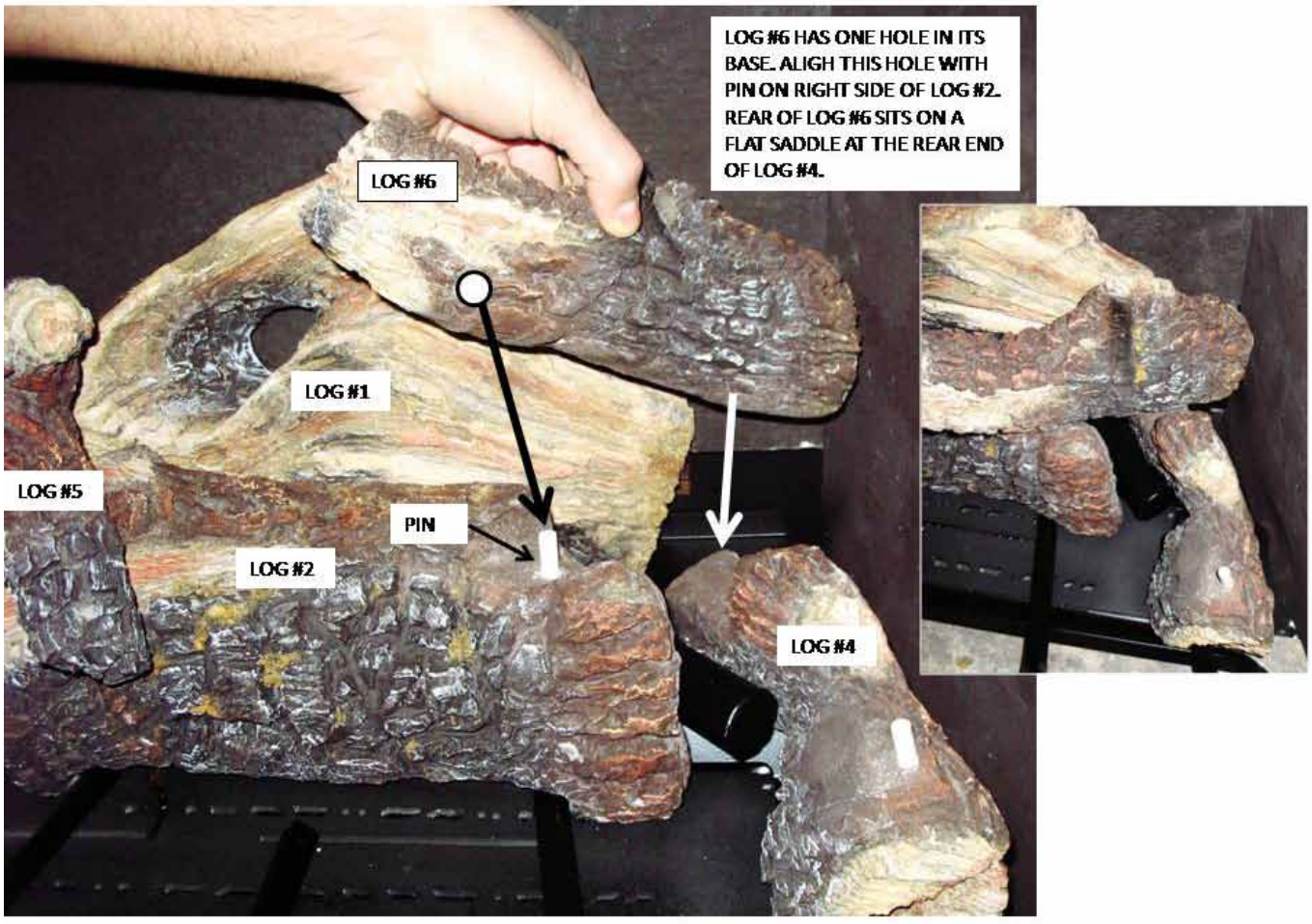

Log #2 has two holes in its base. Align holes in log base with two pins located in front of rear burner and set Log #2 in place.
LOG #2
HOLES IN LOG BASE
PINS
MAINTAIN ¼" GAP HERE.


LOG #3 HAS ONE HOLE AND A SQUARE NOTCH IN ITS BASE. ALIGH HOLE WITH PIN AND SQUARE NOTCH WITH LEFT-MOST ANDIRON BAR. SET LOG DOWN OVER PIN AND ANDIRON GRATE.
LOG #3
PIN

LOG #4
LOG #4 HAS ONE HOLE IN ITS BASE AND A SQUARE NOTCH IN ITS FRONT FACE. ALIGN HOLE WITH PIN AND SQURE NOTCH WITH RIGHT-MOST ANDIRON BAR. LOWER LOG #4 IN PLACE.


¼" GAP
¼" GAP

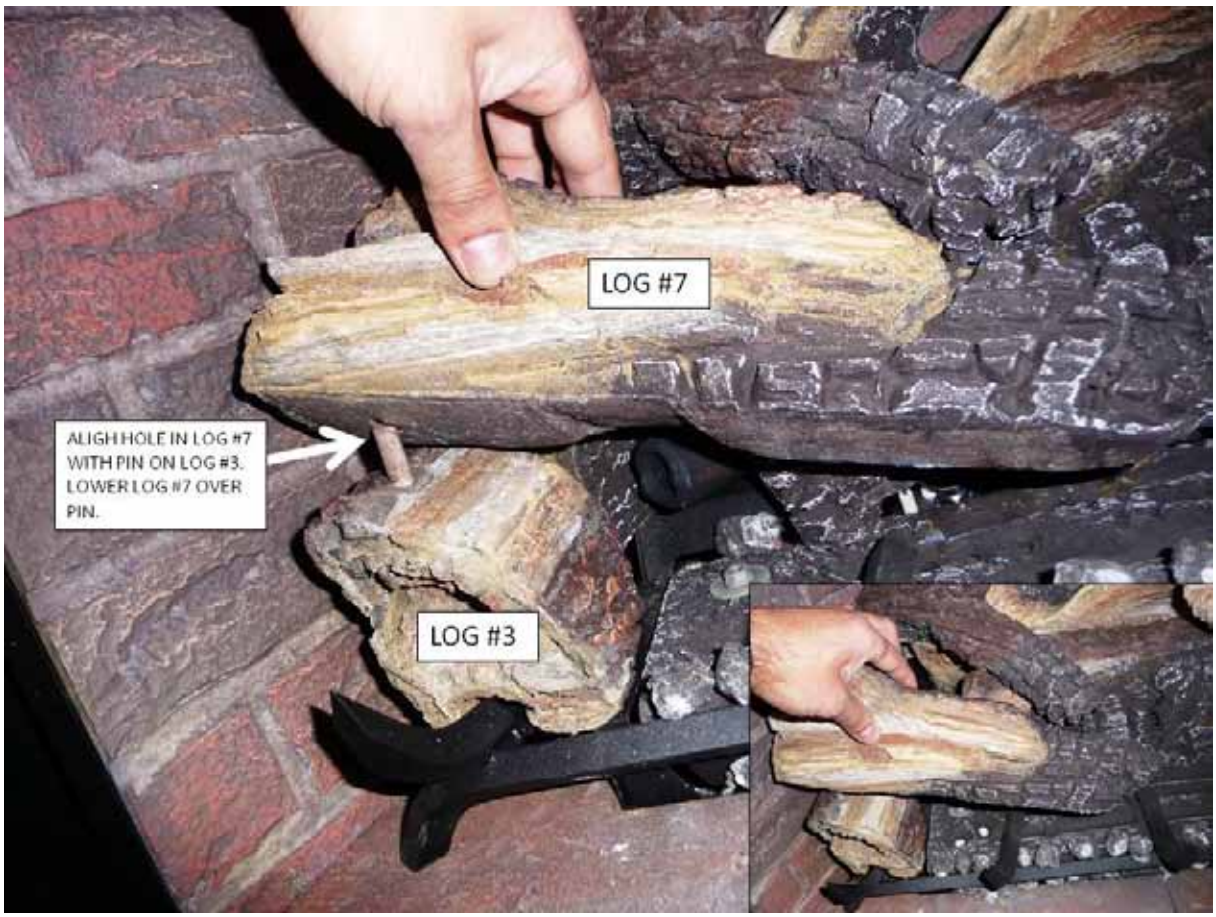

LOG #5 HAS ONE HOLE IN ITS UNDER-SIDE. ALIGN THIS HOLE WITH PIN ON LEFT SIDE OF LOG #2. LOWER LOG #5 DOWN ON PIN. REAR OF LOG #5 SITS ON LEFT SHOULDER OF LOG #1.
LOG #5
LOG #1
LOG #2
PIN ON LOG #2
LOG #3

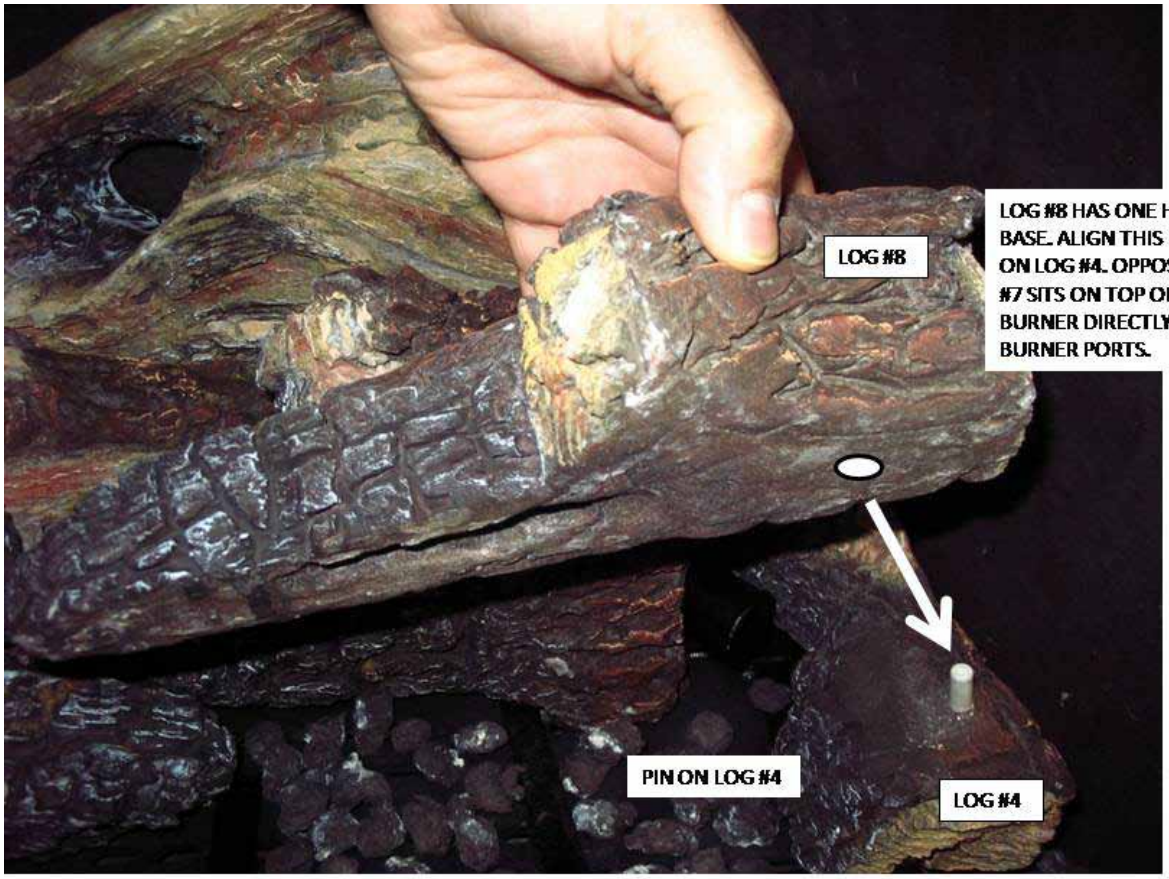

LOG #6 HAS ONE HOLE IN ITS BASE. ALIGH THIS HOLE WITH PIN ON RIGHT SIDE OF LOG #2. REAR OF LOG #6 SITS ON A FLAT SADDLE AT THE REAR END OF LOG #4.
LOG #6
LOG #1
LOG #5
PIN
LOG #2
LOG #4

PLACE SMALL COALS LOOSELY ALONG GRATE BAR ONLY.

USING A TOOTHBRUSH, BRUSH INSWOOL LIBERALLY OVER BURNER EMBER BED AND CENTER LOG. AVOID DEPOSITING EXCESSIVE INSWOOL INSIDE BURNER PORTS.

LOG #2
HINT: TO MAXIMIZE GLOW EFFECT ON FACE OF LOG #2, PLACE SOME SMALL PIECES OF LOOSE INSWOOL ON TOP OF BACK EDGE OF BURNER EMBERBED AND UNDERNEATH LOG #2 IN INTERMITTENT AREAS. FOR MAXIMUM YELLOW FLAMES AND LESS GLOW EFFECT, LEAVE THIS AREA OPEN SO AIR CAN FLOW TO FRONT BURNER.

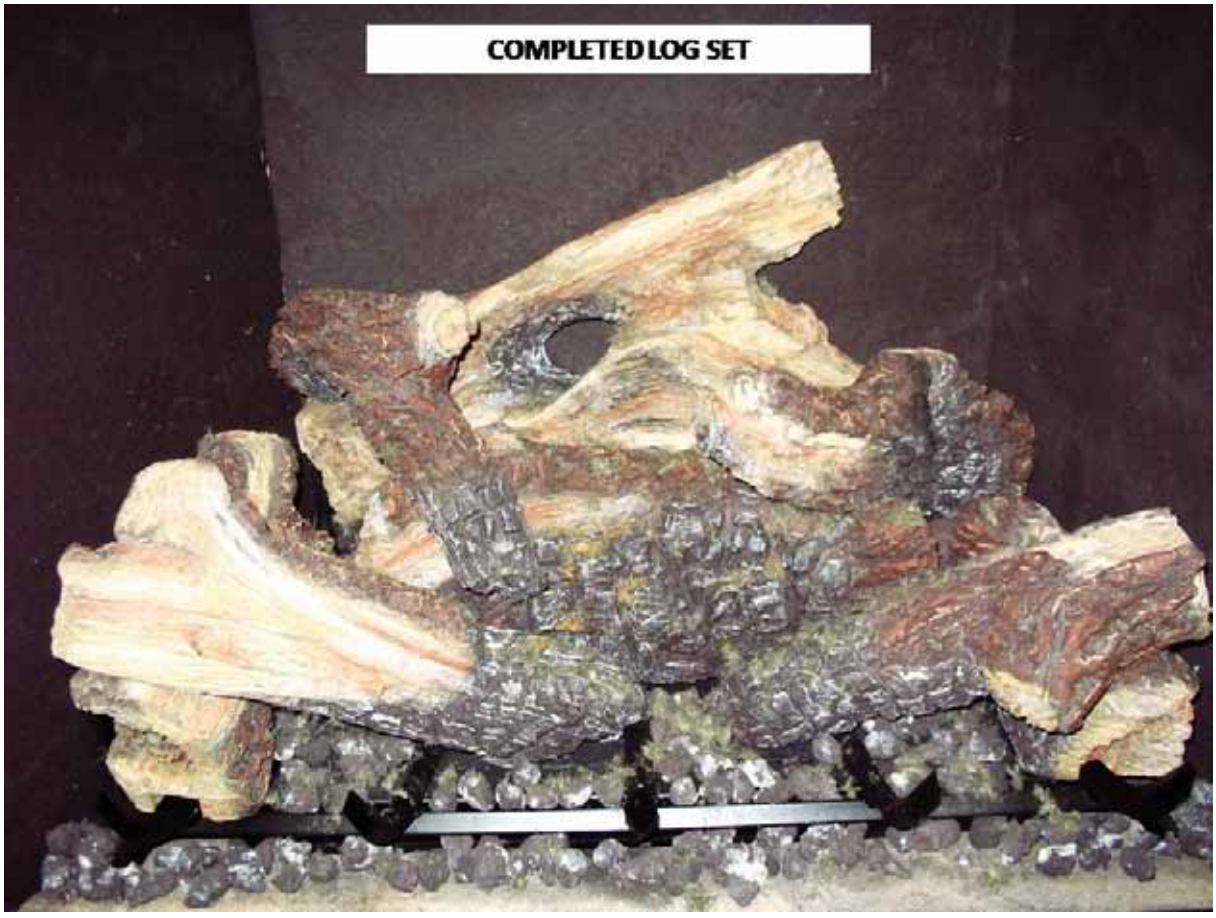

LOG #7
ALIGH HOLE IN LOG #7 WITH PIN ON LOG #3. LOWER LOG #7 OVER PIN.
LOG #3


LOG #8
LOG #8 HAS ONE HOLE IN ITS BASE. ALIGN THIS HOLE WITH PIN ON LOG #4. OPPOSITE TIP OF LOG #7 SITS ON TOP OF FRONT BURNER DIRECTLY BEHIND FRONT BURNER PORTS.
PIN ON LOG #4
LOG #4

TIPS OF LOG #7 AND LOG #8 MUST SIT ON SHADED AREAS SHOWN. DO NOT PLACE TIPS OF THESE LOGS ON TOP OF BURNER EMBER BED'S GAS PORTS.

USING A TOOTHBRUSH, BRUSH INSWOOL LOOSELY OVER FRONT BURNER AND OVER CHARRED AREAS OF FRONT LOGS.

PLACE SMALL COALS ON TOP OF FLOOR BRICK PANELS AND CLOSE TO GRATE BOTTOM TO SIMULATE A COAL BED.



BEFORE YOU BEGIN

Read this entire manual before you use your new fireplace insert(especially the section “Safety Precautions”). Failure to follow the instructions may result in property damage, bodily injury, or even death.

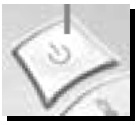
Remote Control Transmitter Functions

NOTE: The Wall Receiver will “beep” once every time a Remote Transmitter Key is pressed, signaling that the command has been received.

Identify the four function buttons on the Remote Transmitter:

Fig. 1: PROFLAME Transmitter.

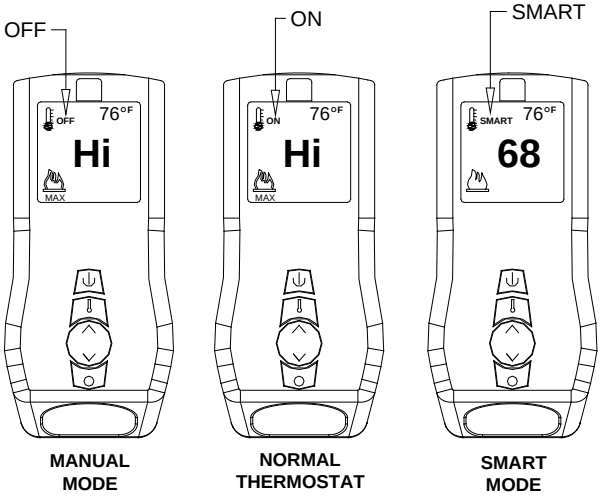
1. **ON/OFF KEY**: This button turns the system ON or OFF. When this button is pressed and the system is OFF, the pilot light will stay ON if the “Standing Pilot Switch” is in the ON position.



2. **THERMOSTAT KEY**: This button, when pressed after the ON/OFF KEY is pressed and the system is ON, will allow the selection of three modes: Manual Operation, Normal Thermostat and Smart Thermostat.

   a. **Manual Mode**: In this mode, the room temperature is ignored and the fireplace can be turned ON indefinitely. The room temperature rise has no effect on this mode. All other functions such as fan speed control, flame height control, secondary burner On/OFF control and Accent Light ON/OFF controls will be manually controllable.

   b. **Normal Thermostat**: In this mode, the fireplace will stay functioning until the room temperature increases 1°F above the Set Point Temperature. To increase the Set Point Temperature, Press the UP button until the desired temperature is displayed in the SET POINT TEMPERATURE window. The fan will turn on 5 minutes after fireplace startup and will turn off 12-1/2 minutes after the flames turn off, in this mode. The flame height can be adjusted while the fireplace is functioning, fan speed can be adjusted after 5 minutes of startup. Secondary burner can be turned On or Off at any time after startup. The Accent Light can be turned on or off any time after startup.



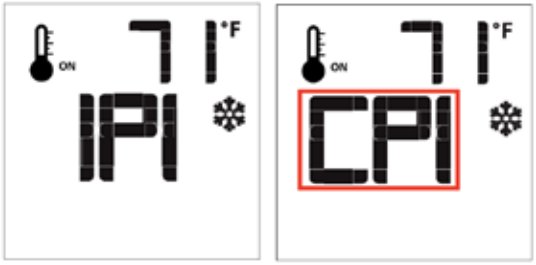
   c. **Smart Thermostat**: In this mode, all other functions except the flame height adjustment are allowed. Manual flame height adjustment is not allowed in this mode. The Smart Thermostat function adjusts the flame height in accordance to the difference between the set point temperature and the actual room temperature. As the room temperature gets closer to the set point temperature, the Smart Function automatically modulates the flame down.

3. **UP/DOWN KEY**: This key is used to increase or decrease the Set Point Temperatures, Flame Height and Fan Speed and to toggle between Accent Light ON/OFF and Secondary Burner ON/OFF.

MODE SELECTION KEY: This key is used to toggle between the various function icons: Set Temperature, Flame Height and Secondary Burner.

Setting Pilot to IPI versus CPI mode:

With the remote transmitter OFF, press the MODE button. You will see either “CPI” or “IPI” displayed on the transmitter screen. Press the UP arrow button to set “CPI” mode and press the DOWN arrow button to set “IPI” mode. One set to the desired setting, press On/Off button to activate the fireplace.



REMOTE TRANSMITTER OPERATING INSTRUCTIONS

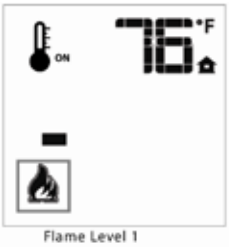
TO TURN ON THE APPLIANCE:

1. Press the ON/OFF button. The transmitter display will show all active icons on the screen.
2. Select the Thermostat Mode by pressing the Thermostat Key: OFF (meaning Manual Mode), ON (meaning normal Thermostat) or Smart (meaning Smart Mode).
   a. In OFF (Manual Mode), the appliance will ignite and start on HI.
   b. In ON (Normal Thermostat Mode), the appliance will only ignite if the Set Temperature is greater than the Room Temperature.
   c. In SMART (Smart Mode), the appliance will only ignite if the Set Temperature is greater than the Room Temperature.

TO TURN OFF THE APPLIANCE, press the ON/OFF button.

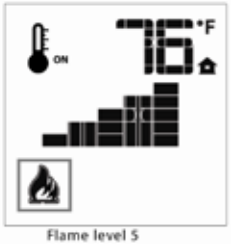
MODE KEY: Pressing the MODE KEY toggles between the various available functions: Flame Height, Fan Speed, Accent Light Dimmer and Secondary Burner On/Off.

Flame Off

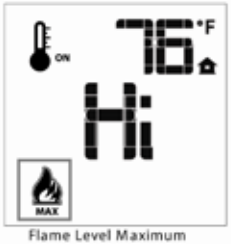


Flame Level 1

Flame Height: 6 flame height Levels are available. While the Flame Height Icon is displayed, pressing the Up or Down button once will increase or decrease the flame height by 1 of 6 increments. If the flame height is at Level 1 and the Down button is pressed, all burners will turn OFF. If in IPI mode, the pilot light will also extinguish. If in Standing Pilot Mode, the pilot light will remain ON. Note: If in SMART model, the flame height function is not available for manual adjustment. In SMART mode, the flame height regulates automatically.



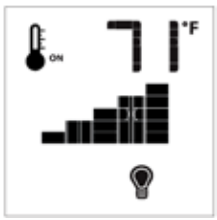
Flame level 5



Flame Level Maximum

Fan Speed Control: The fan speed can be adjusted through six (6) speeds and OFF. To activate this function, press the MODE Key to index to the fan control icon. Use the UP/Down Arrow Key to turn ON, OFF or adjust the fan speed. A single "beep" will confirm reception of the command. Once you set the desired fan control, the system will remember your selected fan speed until you manually change it.

Accent-Light Dimmer: This function controls the Mendota Accent Light functions. Pressing the UP key in this mode will TURN ON the Accent Light and allow you to control the brightness of the Accent Light in 6 steps. A single "beep" will confirm reception of the command. Once you set the desired light brightness, the system will remember your selected brightness level until you manually change it.



Secondary Burner: This function controls the Secondary Burner's ON/OFF feature. Pressing the UP Key in this mode will TURN ON the Secondary Burner and Pressing the DOWN Key will TURN OFF the Secondary Burner. The flame level will not change when you turn the Secondary Burner On or Off. The flame level can only be changed in the Flame Level mode.

NOTE: The "AUX" function is not available and shall be skipped over.

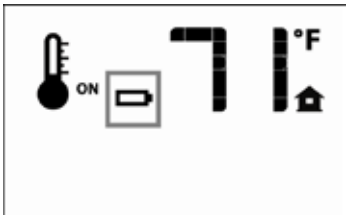
TEMPERATURE INDICATOR (^{o}F or ^{o}C)

1. Press the ON/OFF Key and Turn Off the Fireplace.
2. Simultaneously, Press both the MODE Key and the Thermostat Key.
3. Look at the LCD display to verify that your desired indicator (^{o}F or ^{o}C) is being displayed. If not, repeat step 2.

KEY LOCK FUNCTION

To prevent unsupervised children from operating the fireplace, a KEY LOCK function is provided with this remote control system. To activate the KEY LOCK function, simultaneously press the “MODE KEY” and the “UP KEY”. To deactivate the KEY LOCK function, simultaneously press the “MODE KEY” and the “UP KEY”.
During KEY LOCK mode, none of the Keys will function. You must DEACTIVATE the system before you can use the Remote Transmitter.

LOW BATTERY POWER DETECTION



1. **Transmitter Batteries**: The life span of the remote control transmitter batteries depends on various factors: quality of the batteries used the number of ignitions of the appliance, the number of changes to the room thermostat set point, etc. When the Transmitter batteries are low, a Battery Icon will appear on the LCD display of the Transmitter before all battery power is lost. When the batteries are replaced, this icon will disappear.

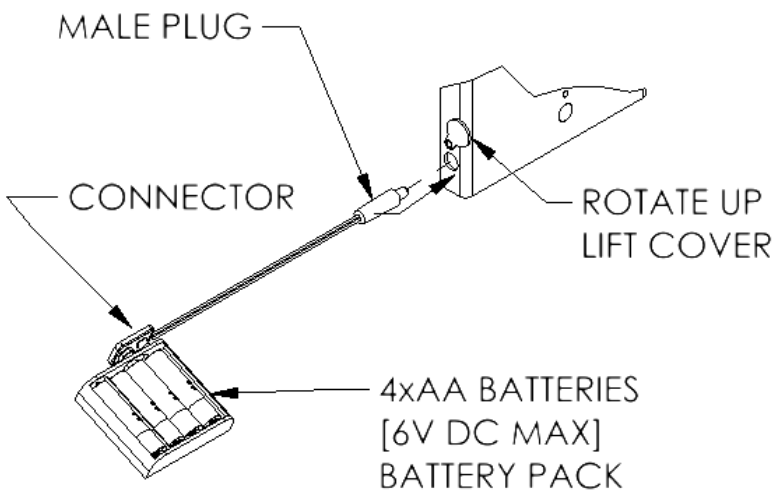
OPERATING DURING POWER OUTAGES

This electronic ignition system utilizes the supplied 110VAC power when it is available for all functions of this system. If the AC power is interrupted during a power outage, plug in the battery pack (6V DC Max, supplied with this fireplace) to the Fireplace Backup Power Inlet Port.

During the power outage, the appliance’s burners will function. In addition, Flame Height adjustment and Secondary Burner ON/OFF functions will be available. The Fan and Accent Light, which are wholly dependent on 110VAC power, will not function.

This appliance is designed and tested to be operated during power outages. The overall efficiency of this appliance will be reduced by approximately 5% when the blower function is disabled during the power outage period.

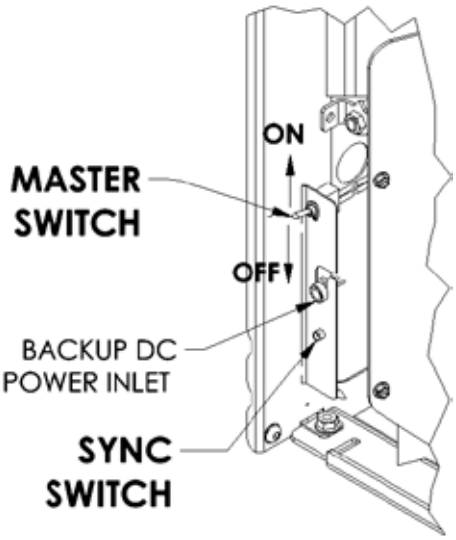
You may operate this appliance indefinitely on battery power as long as you accept that high capacity DC 6 volt batteries will be required to sustain uninterrupted DC power to this appliance and that the blower function and accent light functions will not be available.



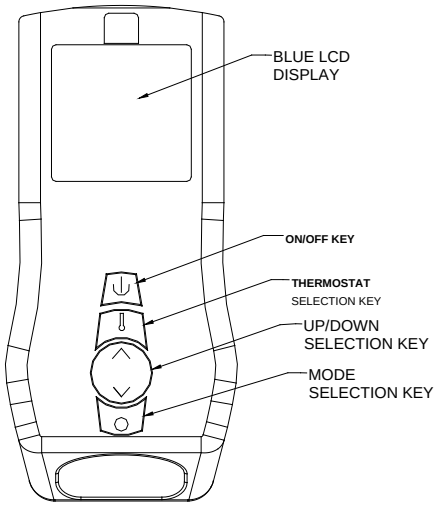
"FIRST TIME" PILOT LIGHTING INSTRUCTIONS

IMPORTANT: Be sure all items on "INSTALLATION CHECK OFF LIST" in the Installation Manual have been completed!

CAUTION: If the pilot goes out, be sure to wait a minimum of five minutes before attempting to relight the pilot.



1. Make certain that any manual gas supply shut-off valves located upstream of fireplace are open and the **Master On/Off switch** is toggled to the ON position. Master Switch is located on left side of appliance.
2. Make certain that 110VAC power is connected to Electrical Junction Box on left side of Fireplace and that the Electrical Power is "ON".
3. Insert Batteries in the Remote Transmitter. Note the polarity of batteries and insert as indicated on the battery compartment cover.
4. For the "First Time Lighting", Remove the Glass Door. This is required to purge the gas line of air and to inspect the pilot lighting spark.
5. Press OFF on the remote Transmitter. Press MODE button on Transmitter. Press UP for "CPI" (standing pilot mode). Press MODE button again to exit. You will hear a series of clicks and after a few seconds, you will hear sparking at the pilot spark electrode.
6. Allow adequate time for the air in the gas-line to purge. The control system will stop sparking after 30 seconds if the pilot light does not light. After a 30 second delay the control system will start sparking again for 30 seconds more. If the pilot light does not light after the third 30 second spark event, the system will enter "Lock-out" mode. To unlock from "Lock-out" mode, Press the ON/OFF button on Transmitter then Press ON/OFF button on the transmitter again so the Transmitter display turns off. Wait 30 seconds. Turn OFF the Master Switch. Wait 30 seconds and Turn Master Switch ON again. Repeat this sequence until the pilot flame lights and the pilot is burning steadily.
7. Once the pilot flame is lit and well-established, close glass door. **WARNING: NEVER IGNITE MAIN BURNERS WITH GLASS DOOR REMOVED OR OPEN. Doing so will lead to damage to pilot flame sensor and spark electrode wire leads.**
8. Press the ON/OFF button on Transmitter to "ON". All burners should ignite and run at "high-fire". Toggle through other functions of the Fireplace (Flame Height, Fan Speed and Accent Light brightness) to verify all functions.
9. Perform gas inlet and outlet pressure tests and leak tests on field installed gas fittings and factory installed fittings in the gas valve compartment, at this time. Note: Burners must be ON to check outlet pressures and to leak test gas train fittings upstream of main gas valve.



REMOTE TRANSMITTER

INITIALIZING THE REMOTE CONTROL SYSTEM

MASTER SWITCH: Remote Transmitter WILL NOT communicate to receiver unless the Master Switch is ON. The master switch when OFF disables all functions and acts as a Master Safety Shutoff Switch.

(Synchronizing Receiver and Transmitter)

Master Switch and Sync Switch are located on the bottom left corner of the appliance.

1. Toggle Master Switch to ON (toggle UP). Remote Transmitter WILL NOT communicate to receiver unless the Master Switch is ON.
2. Locate Sync Switch (below Master Switch). Press the Sync Button and release. The receiver will beep 3 times indicating that it is ready to synchronize with a Remote Transmitter.
3. Push the "ON" key on the Remote Transmitter. The receiver will beep 4 times to indicate that the Transmitter's command is accepted and sets to the particular code of that Transmitter. The system is now initialized.

NOTE: Once synchronized, the Transmitter and Receivers will communicate permanently and no further Synchronizing steps are necessary unless either the Transmitter or Receiver is replaced.

IPI/STANDING PILOT SYSTEM INFORMATION

	REMOTE CONTROL	WALL RECEIVER
Supply voltage	4.5V (three 1.5V AAA batteries)	6.0V (four 1.5V AA batteries)
Ambient temperature ratings	32 – 122 ^{o}F (0 – 50 ^{o}C)	32 – 140 ^{o}F (0 – 60 ^{o}C)
Radio Frequency	315 MHz	315 MHz

ATTENTION!

The transmitter and receiver are RADIO FREQUENCY DEVICES. Turn off the main gas supply of the appliance during installation or maintenance of the receiver.

- Toggle the Master Switch to OFF during installation or maintenance.
- Turn "off" main gas supply to the appliance prior to removing or reinserting the batteries in the receiver.
- During appliance installation/maintenance or in case of remote control malfunction, turn off electrical supply to this appliance and disconnect the Backup batteries from the wall DC connector. Contact technical service.

Intermittent Pilot Light and Standing Pilot Light Features

This gas fireplace is equipped with an electronic ignition System that first lights a pilot light then uses the pilot light to ignite the main burners. The pilot light can be set in the CPI (Standing Pilot) mode to allow the pilot light to remain on indefinitely by setting the Remote Transmitter to CPI mode. If the remote transmitter is set to the IPI (Intermittent Pilot) mode, the pilot light will only light and remain ON while the main fireplace burners are operating.

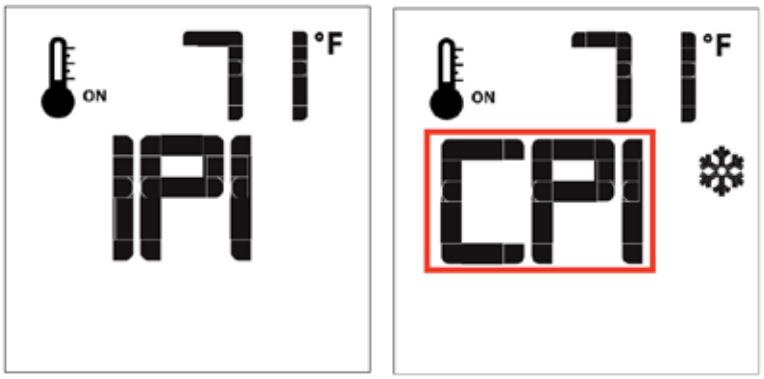
IPI Mode: This mode turns the pilot light "OFF" when the fireplace is not functioning and only lights the pilot light automatically when a call for heat is made by the remote control.

(CPI) Standing Pilot Mode: If set to CPI Mode, the pilot light will ignite and remain ON at all times.

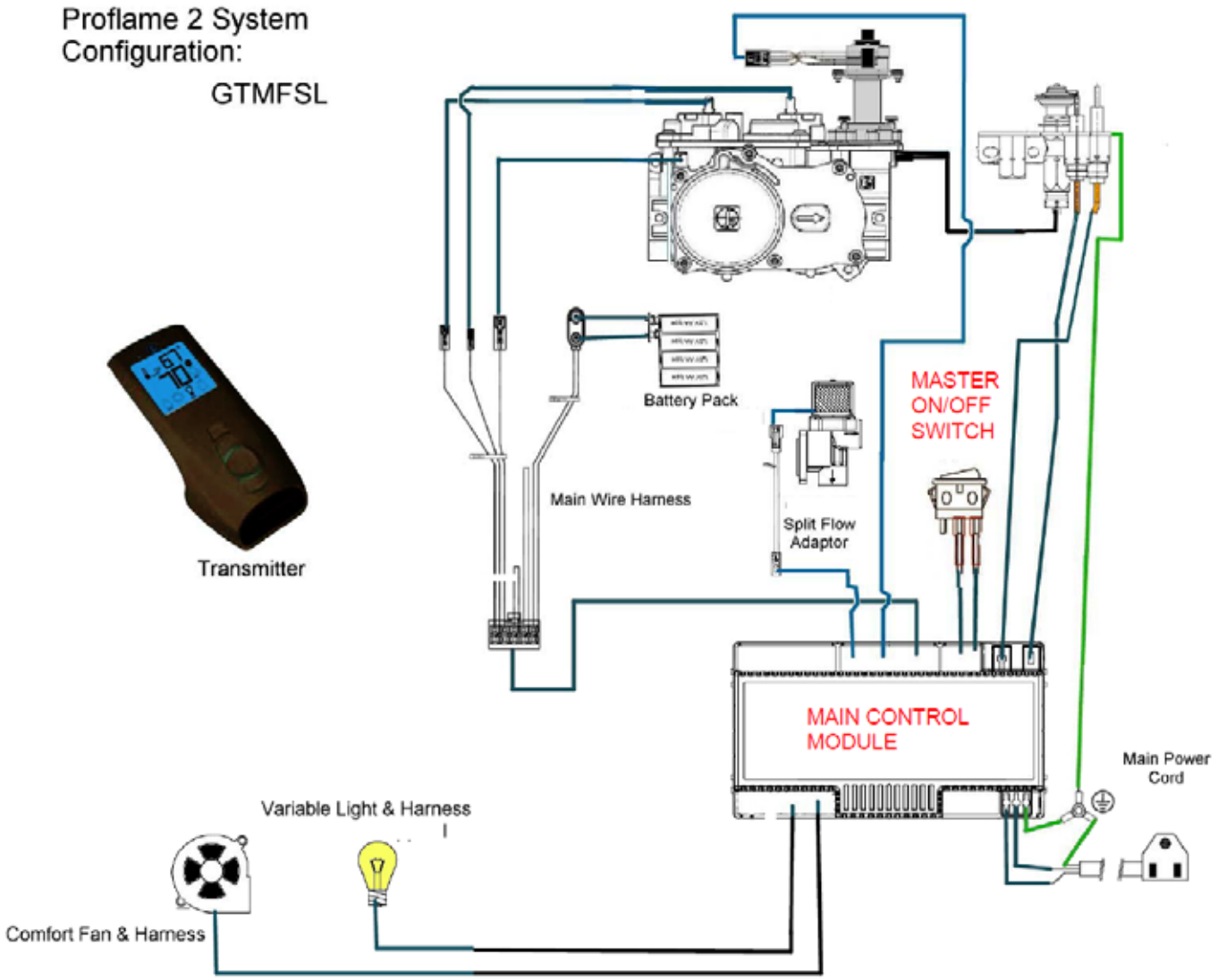
Setting to IPI versus CPI mode:

With the remote transmitter OFF, press the MODE button. You will see either "CPI" or "IPI" displayed on the transmitter screen. Press the UP arrow button to set "CPI" mode and press the DOWN arrow button to set "IPI" mode. One set to the desired setting, press On/Off button to activate the fireplace.

NOTE: **Mendota Fireplaces recommends that the (CPI) Standing Pilot Mode be used during the winter months when the average daily high temperature falls below 50^{o}F**. This will keep the fireplace chimney heated for proper updraft during burner ignition and it will also eliminate excessive condensation of exhaust vapors on the door glass. Further, leaving the fireplace in the Standing Pilot Mode will keep the fireplace body warm and eliminate cold drafts and heat loss to the cold air that is trapped inside the firebox.



FV-44i GAS IGNITION SYSTEM WIRING DIAGRAM



MAINTENANCE

1. **ANNUAL MAINTENANCE OF MENDOTA UNITS IS REQUIRED**. The following procedures must be performed each year by a Mendota approved service person. NOTE: Any adjustments to burner, pilot or logs must be done by a qualified Mendota service person.

A. Clean all lint and dust build-up around the control. Inspect the condition of any wiring under the burner for melting or damage.

B. Remove logs & coals and clean away any foreign matter (lint, Carbon, etc.) on the burner and logs. Be sure the burner ports are "open". Clean the pilot and under side of the logs for any Carbon deposits. NOTE: Logs should be visually checked for Carbon "build-up". If carbon deposits are visible on logs, unit should be turned off and Mendota service person contacted. Be sure logs are re-installed per instructions on PAGE 34.

C. Check condition of glass door gasket, gasket must seal tightly over firebox, replace if necessary.

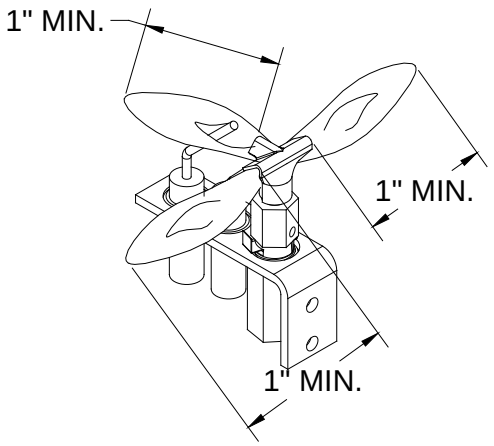
D. Periodically check to verify that the vent system and vent cap are open and free of blockage.

E. Before re-installing glass, have qualified service person check the operation of the pilot and cycle the burner per LIGHTING INSTRUCTIONS. Be sure all items in LIGHTING and INSTALLATION "check off" lists are completed.

4. The viewing glass should be cleaned periodically**.** Exterior glass surface may be cleaned with cleaner as desired. To clean Interior glass surface, use Kel Kem "polish plus" (part # 65-06-00455) or comparable product. Do not use oven cleaner or abrasive cleaners to clean glass. Do not clean when glass is hot.

5. Periodic visual check of pilot flames is required. Pilot Flame must overlap Flame Sensor and burner ignition ports at all times.

6. Periodic visual check of main burner's rear and front flames is required.

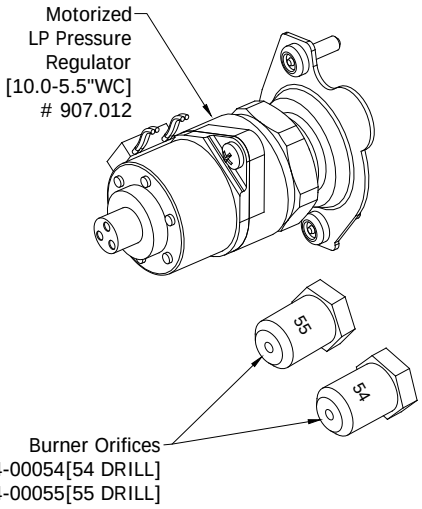


BURNER FLAMES GENERAL HEIGHTS REFERENCE DIAGRAM

NATURAL TO LP GAS CONVERSION

Kit # HA-58-00302 for Mendota Model FV-44i

This conversion kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result causing property damage, personal injury or loss of life. The qualified service agency is responsible for the proper installation of this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the owner instructions supplied with the kit.



Caution: The electrical supply to the fireplace must be turned off prior to performing the conversion. The gas supply must be shut off prior to disconnecting the electrical power.

ORIFICE SIZES REQUIREMENT:

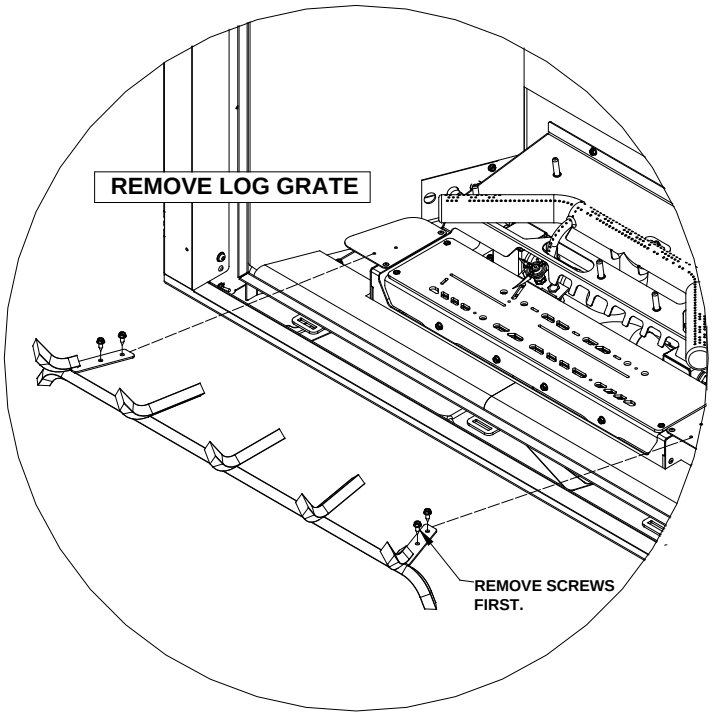
A Natural Gas to LPG conversion kit #HA-58-00302 must be ordered and installed to convert the FV-44i Fireplace to burn LPG.

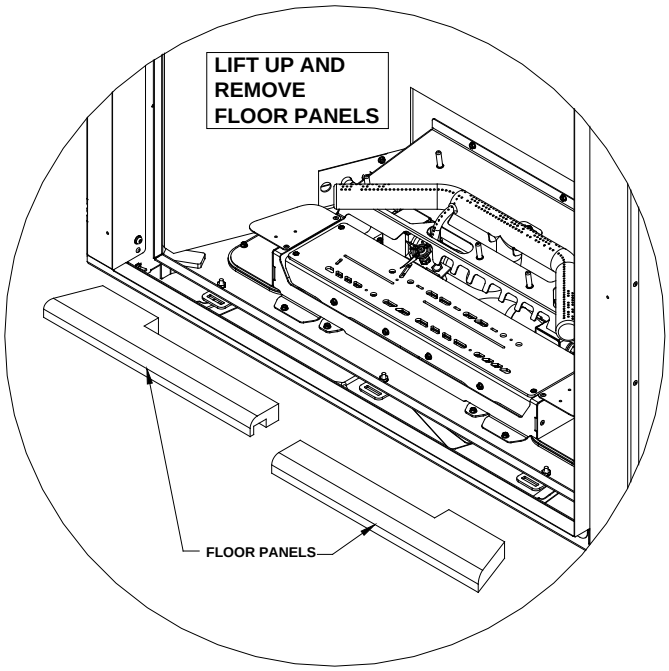
LP Conversion Kit # HA-58-00302 contains the following parts: One Motorized LP Pressure Regulator #907.012 and two Cap Orifices (**drill #54 and drill #55)**.

Recommended Procedure to Convert This Fireplace To Burn LPG

This Fireplace Insert arrives from the factory ready to burn Natural Gas. If you intend to burn LPG, it is highly recommended that you convert this fireplace and its Pressure Regulator, Pilot Orifice Thimble and Burner Orifices prior to placing this fireplace in its fireplace cavity.

See diagrams, on this page, and follow these instructions to prepare this fireplace for conversion to LPG.





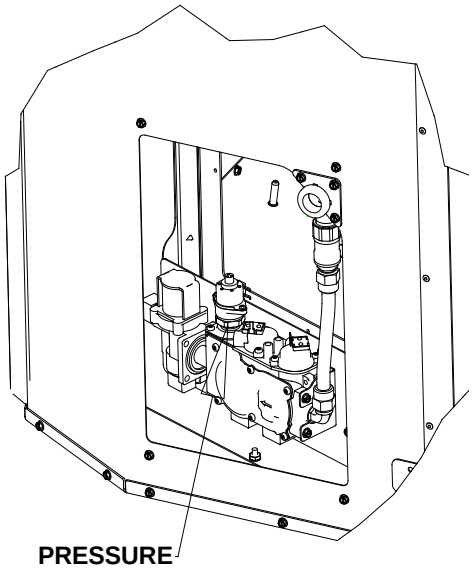
1. Using a ¼" Hex Driver, remove 4 screws that secure the Log Grate in place. Remove Grate from Firebox.
2. Remove the Floor Brick Panels by lifting them out of the firebox.
3. Remove the left-side access panel mounted to the left outer skin and lay down gently without disconnecting any wires of internal components.

WARNING: It is of the utmost importance that the correct burner orifices be installed for both the rear and front burners.

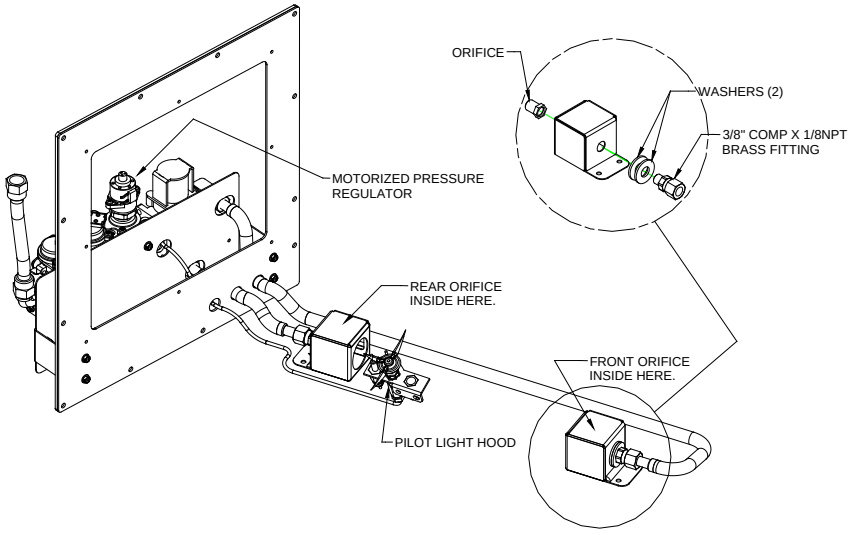
It is highly recommended that you remove the left side blower assembly and the left side exterior controls box before attempting to replace the pressure regulator.

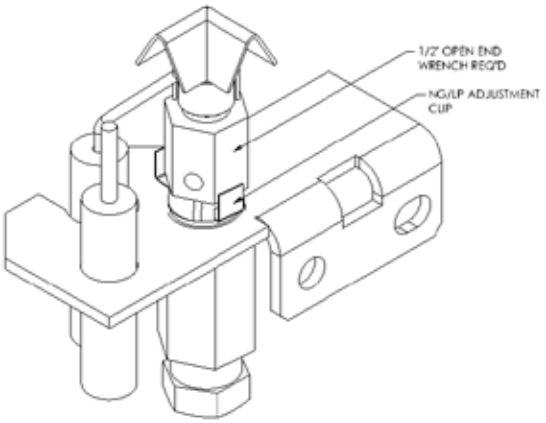
1. Turn off gas supply at the appliance service valve.
2. See diagrams on this page and identify the Pressure Regulator on the Valve Body.
3. Using a Torx T20 or a slotted screwdriver, remove 2 screws that secure the NG Pressure Regulator to the gas valve body and remove NG Pressure Regulator, see following page.
4. Install the new LP Pressure Regular onto the gas valve body in the same position and orientation as the NG Pressure Regulator you removed in Step 2, above. The LP Pressure Regulator can only be mounted in one position. Secure the LP Pressure Regulator in place. Tighten down.
5. Remove both Rear and Front Burners. Locate and Identify the Rear Burner Orifice Spud and the Front Burner Orifice Spud. Both Front and Rear Orifice Spuds are removed and installed using a ½" deep well socket and ratchet.
6. Install Rear Burner Orifice #65-14-00054(#54 drill) for the Rear Burner. Tighten down securely.
7. Install Front Burner Orifice #65-14-00055 (#55 drill) for the Front Burner. Tighten down securely.
8. Locate Pilot Light on right side of firebox. While holding the pilot base body with large vice grips tightly, loosen Pilot Light's hex shape base using a ½" open end wrench. Rotate counter clock-wise ¼ turn to loosen.
9. Pilot arrives from the factory set for NG. Push NG/LP Adjustment Clip inward all the way to set it for LP. See detail view, below. If you see "NAT" printing on the Adjustment Clip, this indicates that the pilot is set to burn NG. Push Clip in so that "NAT" is not visible.
10. Tighten down Hex shaped base of pilot using a ½" open end wrench.

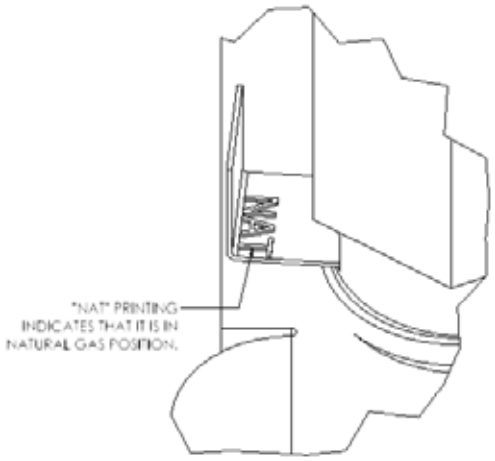
VIEW FROM OUTSIDE FIREBOX



PRESSURE REGULATOR







LP PRESSURE REGULATOR CONVERSION INSTRUCTIONS

WARNING: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

WAR NING!
The installation of this conversion kit must only be undertaken by a qualified and certified gas appliance installer.

STEPPER MOTOR PRESSURE REG ULATOR CON VERSION KIT IN STALLATIO N OR REPLACEMEN T IN STRUCTIO N S.

Verify that the following items are present in the package.

- Pressure regulator assembly (E)
- Two (2) screws (F)
- Identification label (G)
- Installation instructions (this document).

1 Shut off the gas supply to the valve and shut down the electric supply.

2 See Fig. 1. Using a Torx T20, or slotted screwdriver, remove and discard the two (2) pressure regulator mounting screws (A), pressure regulator tower (B), and the spring and diaphragm assembly (C), (If applicable).

3 Ensure the rubber gasket (D), which is prefitted as part of assembly (E), is properly positioned, see Fig. 2, otherwise fit the gasket as shown Fig. 2.

4 Install the new STEPPER MOTOR pressure regulator assembly, as shown in Fig. 3 and Fig. 4. Use the supplied screws (F), M4 x 0.7 threaded, length of thread L=(16 mm + 0 - 0.5 mm), steel material, resistance class 8.8 (see Fig. 5).

5 Manually thread the two conversion kit mounting screws into the valve body. Use a standard screwdriver or T20 Torx bit and tighten to the screws with a fixing torque of 25lb-in ± 5%.

IN THE EVENT THAT THE THREADS OF THE VALVE ARE STRIPPED OR DAMAGED, REPLACE THE VALVE.

6 Install the enclosed identification label (G) to the valve body where it can be easily seen.

7 Make STEPPER MOTOR and valve electrical connections, apply gas to system and relight appliance according to manufacturers instructions.

8 With the main burner "ON", test the new pressure regulator assembly for leaks using a soap solution.

9 Relight the main burner and verify proper burner ignition and operation.

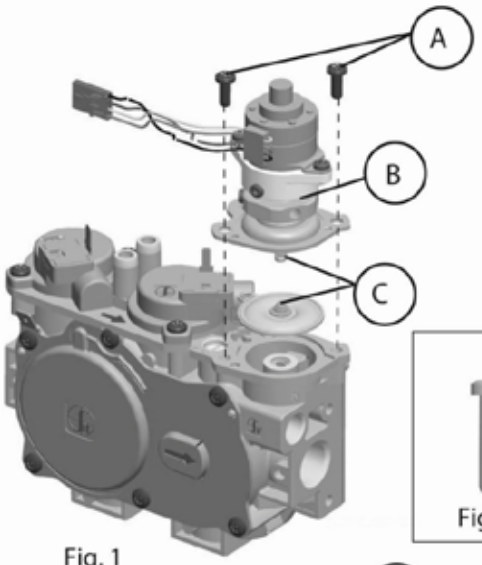


Fig. 1

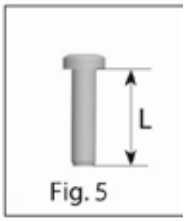


Fig. 5

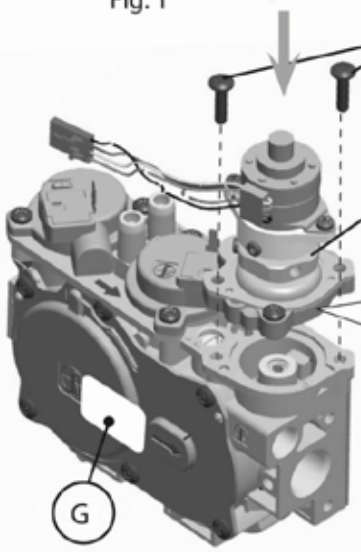


Fig. 3

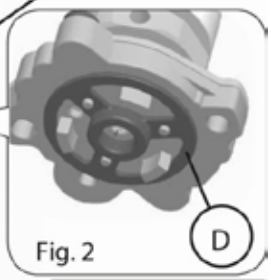


Fig. 2

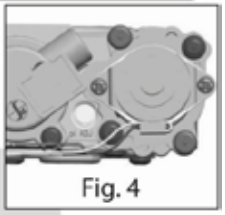


Fig. 4

WAR NING!
Installation should be carried out in a clean environment.

WAR NING!
This modulating conversion kit must ONLY be applied as part of a conversion kit supplied by the APPLIANCE MANUFACTURER for the specific appliance, and type of gas, being converted.

WAR NING !
Correct operation of the system cannot be guaranteed if the conversion kit or valve has been dropped or has sustained a strong impact.

IN STALLER NOTICE. These instructions must be left with appliance.

LP GAS PRESSURE REQUIREMENTS

Inlet and manifold gas pressure checking taps are located on gas valve. These ports are only accessible from the outer left side of the fireplace. A qualified installer shall take pressure measurements at these ports to verify and set the correct gas pressures during the LP Kit installation and before facia materials are installed over the front of this fireplace. Manifold pressure must be taken at the "MANIFOLD PRESSURE" tap and inlet pressure at the "INLET PRESSURE" tap **with the burner operating** by a qualified installer.

	DESIRED INLET PRESSURE	MINIMUM INLET PRESSURE	MAXIMUM INLET PRESSURE	MANIFOLD OUTLET PRESSURE	AIR SHUTTER POSITION
L.P. GAS	**11.0" W.C**. (2.75 kPa)	11" W.C. (2.75 kPa)	13.0" W.C. (3.24 kPa)	10.0" W.C. (2.5 kPa)	1/4" OPEN MIN. (5 mm)

REGULATE THE FLAME HEIGHT TO "HIGH" POSITION. OUTLET GAS PRESSURES MAY VARY PLUS OR MINUS 5%.

LPG PROPER INPUT RATES:

With the proper orifices installed, as specified above, this fireplace utilizing LP Gas will have a maximum input rate of 40,000 Btu/Hr.

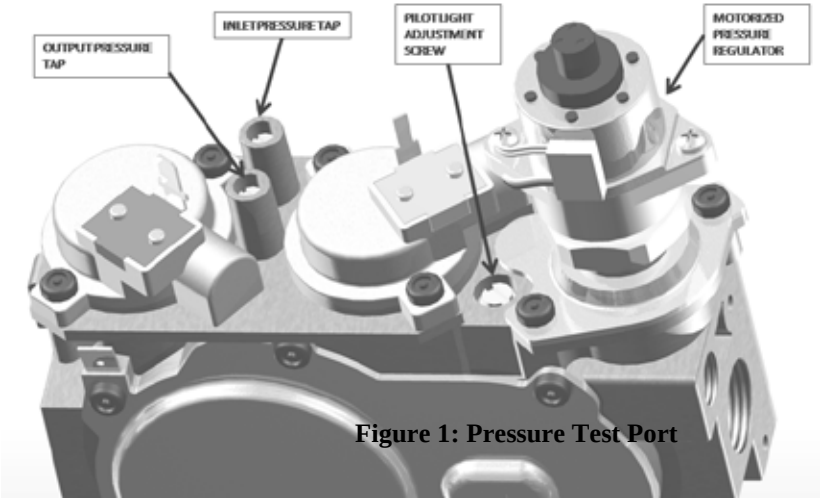


Figure 1: Pressure Test Port

LEAK TESTING REQUIREMENTS

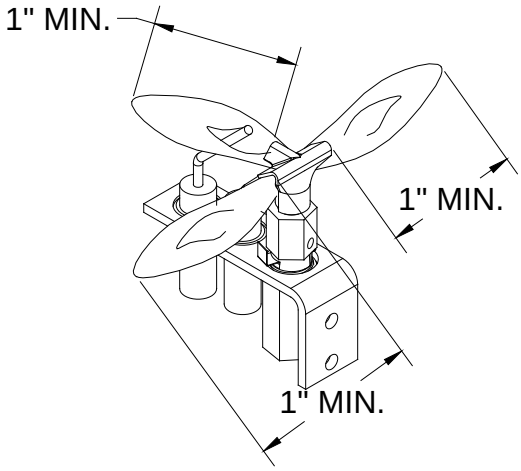
Prior to completing the conversion process, check for gas leaks with soap and water solution at all plumbing joints prior to placing this appliance into operation. It is recommended that all gas-plumbing joints, factory installed and field installed are checked for leaks.

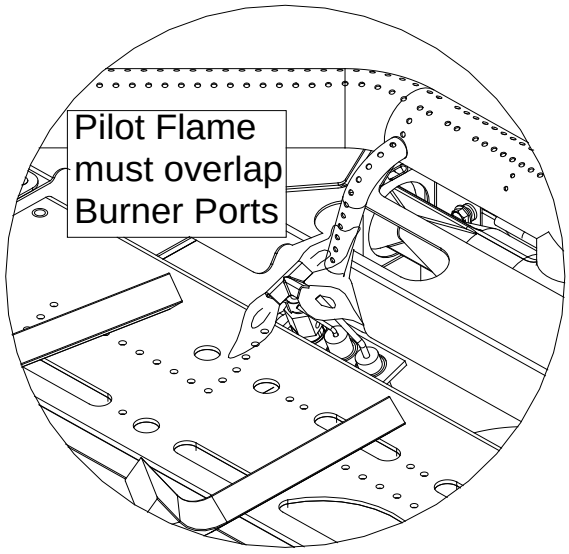
PILOT FLAME AND MAIN BURNER RELATIONSHIP VERIFICATION

Prior to completing the conversion process, the qualified service technician must, light the pilot light and verify the relationship between the pilot light flames and the main burners. The pilot light flames directed towards the propagation ports on the rear and front burner must overlap the propagation ports on the burners. The pilot light flames must be a minimum of ¾" long and must overlap the propagation ports on both the rear and front burners as shown in the diagram, below. Verify that the burner tubes ignite quickly and the burner flames propagate smoothly along the entire length of the burners.

PILOT FLAME LENGTH ADJUSTMENT

If the pilot light flame length is too short and the system does not maintain a standing pilot, a qualified installer may increase the length of the pilot light flames to meet the two requirements: Minimum pilot light length to maintain a standing pilot light and the pilot light flames must be long enough to overlap the front and rear burner ports.





CHECKING FOR NORMAL BURNER (S) IGNITION CHARACTERISTICS

Once the conversion to LPG and all the above steps have been completed, light the main burners.
Turn Gas Dial counterclockwise to "ON" then set Thermostat or push Main Burner ON/OFF switch to turn on burners. Main burner should now light IMMEDIATELY and flame should not "lift" off burner. If there is any delay in ignition or if flame is "lifting off" burner, turn off burner and carefully check for proper installation of logs/coals, vent system and proper pilot flame impingement on burner and thermopile. Logs or coals must not block pilot flame or main burner flame. Vent system must be leak proof.

WARNING
DO NOT PROCEED WITH OPERATION OF THIS FIREPLACE
UNLESS BURNER "CYCLES" ON/OFF WITHOUT DELAYS!

ATTACHING LPG CONVERSION LABELS AND HIGH ALTITUDE DERATION LABEL

Two printed informational labels are included with the LPG Conversion Kit. Attach these two labels to the left side surface of this insert adjacent to the Serial Number Plate. If you are derating this appliance at a high altitude, also attach the High Altitude Deration Label, supplied in the Owner's Manual Packet, to this same surface adjacent to other labels.
Prior to attaching the labels, fill in all the information that is requested in these labels.

For installations from 610-1370 meters (2000-4500 ft.) the orifice sizes (DMS) for natural and propane gas are _54_ and _55_, respectively. See data plate for additional information. For high altitude installations consult the local gas distributor or the authority having jurisdiction for proper rating methods. If the installer must convert the unit to adjust for varying altitudes, the information sticker must be filled out by the installer and adhered to the appliance at the time of conversion." «Cet appareil est equipé pour des altitudes compries entre 0 et 2000 pieds (0-610 m) seulement»

This appliance has been converted for use at an altitude of _____
Orifice size _____ Manifold Pressure _____
Input (Btu/h)_____ Fuel Type _____
Date of conversion _____ Converted by _____
«Cet appreeil a été converti au ____
Injecteur _____
Pression à la tubulure d'alimentation _____
Déoit calorifique _____

GAS LEAK TEST REQUIREMENT: It is the responsibility of the installer/service person to assure that each and every gas connection and supply tubing that are a part of this fireplace are leak proof. The qualified/ certified individual connecting the gas supply line, performing pressure tests or performing any service to this fireplace is required to perform a THOROUGH LEAK TEST on ALL gas fittings that are a part of this appliance or the gas supply line connection using soap-water solution or a calibrated combustible gas detector. Failure to perform this leak test may lead to a house fire and/or an explosion. Mendota is not responsible for any damages due to an Installer's failure to conduct a leak test and verify that all connections and supply lines are leak proof.

WARNING: Do not operate appliances with glass front removed, cracked, or broken. Replacement of glass should be done a licensed or qualified service person.

Note: Consult the local or national installation code(s) to assure that adequate combustion and ventilation air is available.

BLOWER SYSTEM INFORMATION

WARNING: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

If this appliance is installed with a three-prong (grounding) plug for protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from the plug.

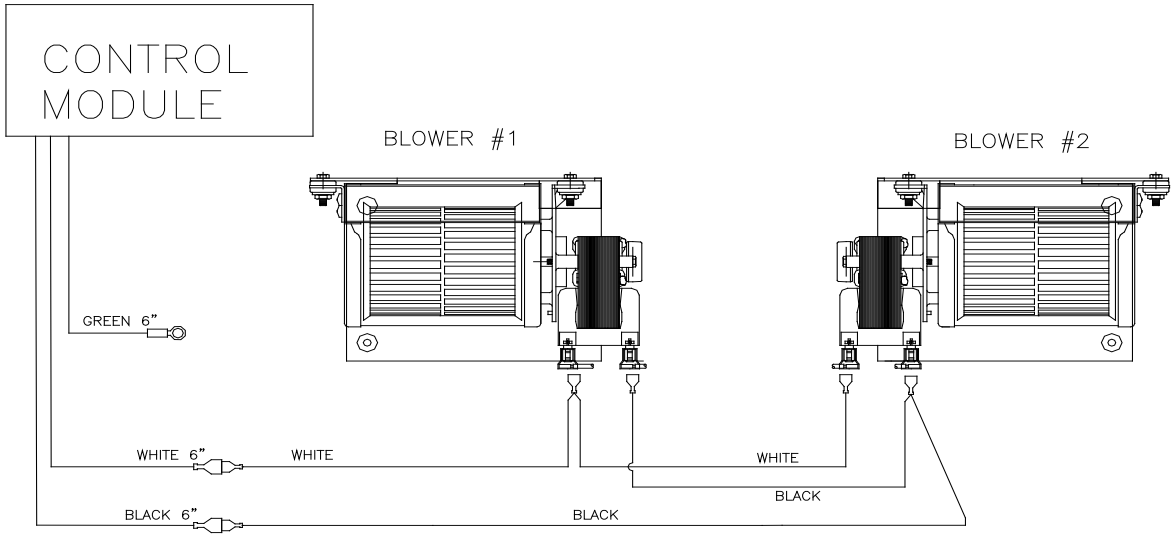
Dual blowers are provided as standard equipment with this FV-44i Insert. The dual blowers have an air output rating of 210 CFM (in free air). This Insert is designed to operate with the blowers turned OFF or ON. Turning the blower on increases the overall efficiency of this fireplace and aids in distributing and circulating heat to the room this Insert is installed in.

BLOWER OPERATION

The remote control system supplied with this appliance can turn the blowers ON or OFF and regulate the speed of the blowers in six (6) steps.

NOTE: In the Normal Thermostat Mode and the SMART Mode, there will be a time delay in blower operation during "heat-up" (5 minutes) and extended blower operation during "cool-down" of unit (12-1/2 minutes).

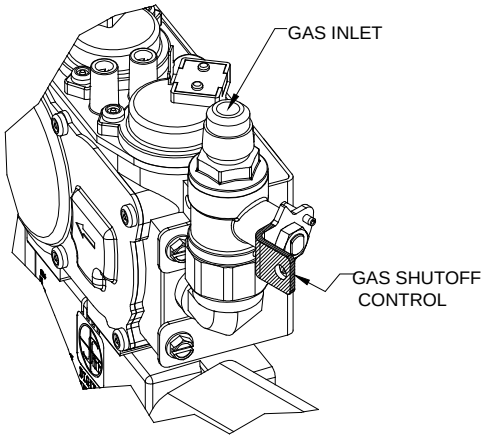
FV-44 BLOWER WIRING DIAGRAM

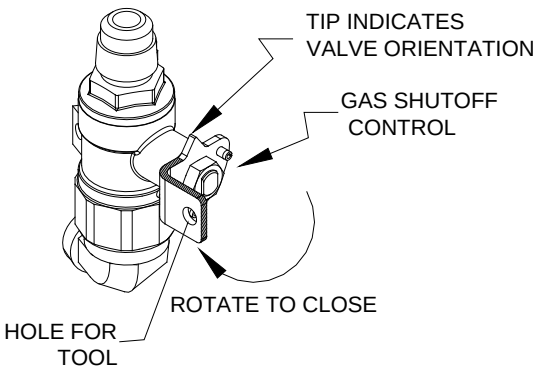


EMERGENCY GAS SHUTOFF CONTROL

This gas fireplace is equipped with an Emergency Gas Shutoff Control that is designed to be activated using the glass latch tool. The shutoff valve and the control is located on the left side of the appliance behind the remote control receiver/battery holder.

Insert bent end of glass latch tool into the hole in the gas shutoff control. Rotate the tool clockwise to turn off gas flow. Rotate the tool counter-clockwise to turn on gas flow.





CUSTOMER INFORMATION AND TROUBLE-SHOOTING

OVER FIRING/UNDER FIRING OF BURNER

NEVER "over fire" units by adjusting gas pressure to increase BTUH above nameplate specifications. Over firing can cause permanent damage to firebox and deterioration of parts and void warranty.

PILOT OUTAGE AND RE-LIGHTING

If pilot goes out, be sure to wait a minimum of five minutes before attempting to re-light the pilot.

CLEANING VIEWING GLASS

The viewing glass should be cleaned periodically. Exterior glass may be cleaned with cleaner as desired. For Interior glass, use soap and water. NEVER USE ABRASIVE CLEANERS, NEVER CLEAN GLASS WHILE OPERATING, OR WHEN GLASS IS HOT.

NOTE: Additives that are put in gas (both natural and propane) to make it smell can be harmful to glass and can leave a white film deposit on the glass. This deposit can be removed with cleaners such as KEL KEM “Polish Plus” (# 65-06-00455, See your dealer for availability).

In some cases (especially propane) additives can cause “crazing” or etching on the glass. Although this is not normal, it is not covered under the warranty. The solution may be to change propane suppliers.

Sooting is caused by improper installation or operation. At the first sign of "sooting" (usually a thin black film on the Fireplace viewing glass) the unit must be immediately turned off and the local Mendota dealer promptly informed. Mendota products are designed and tested to operate without producing any "sooting" when installed and operated correctly. Mendota dealers will correct "sooting" problems, but Mendota and their dealers are not responsible for damage caused by excessive sooting that has not been immediately brought to their attention.

AGA/ANSI APPROVAL

Gas appliances must be tested and certified by a nationally recognized testing and certification laboratory to ANSI [American National Standards Institute] gas appliance safety standards.

The Mendota Gas Fireplace Insert has been tested and certified by Intertek Testing Services, 8431 Murphy Drive, Middleton, Wisconsin 53562.

The Mendota Gas Fireplace Inserts have met all necessary AGA/ANSI Standards and are fully certified for installation in any community.

TROUBLE SHOOTING MENDOTA GAS FIREPLACE INSERT

SYMPTOM	PROBABLE CAUSES	CORRECTIVE ACTION
1. Thin black coating [soot] forms on viewing glass.	A. Incorrect gas pressure B. Not enough combustion air	Have gas supplier check for correct gas pressure [7" W.C. Nat. Gas; 11" W.C. LP Gas]. If sooting continues open-air shutter on burner [see "Gas Flame Adjustment" below]. If sooting still continues, call a Mendota dealer. **NOTE:** To clean glass - remove glass and wipe glass with cloth or paper towel.
2. Humming or whistling coming from Fireplace Insert.	A. Normal operating noise.	Some noise is normal. It is caused by the gas supply flowing through the gas orifice. It is expected from any gas fireplace. The noise can be reduced by turning the Hi/Lo Knob on the control. Turning down the flame will reduce the heat output of the Insert.
3. A change in flame appearance or burner operation.	A. A change in gas pressure. B. Carbon dirt or lint.	Have your gas supplier check for correct gas 7" W.C. Nat. Gas; 11" W.C. LP Gas]. If flame still needs adjustment see "Flame Adjustment" below. Clean out carbon, spider webs, lint, etc. from shutter area. NEVER BLOCK AIR INTAKE OR OUTLET VENTS.

GAS FLAME ADJUSTMENT

During the initial installation, the air shutter opening should be checked to be certain that the shutter is set correctly at 1/8" to 1/4" open for natural gas and 1/2" minimum open for L.P. gas. NOTE: For altitudes above 5,000 ft., some variations may be required.

Be sure burner and logs are properly installed (see pages 17-27). After burner has been properly installed and operated for 2-3 hours, small additional adjustments to the air shutter may be necessary for final flame appearance. These small shutter adjustments can be made by the following procedure:
[**NOTE: Very small changes in shutter settings make <u>major</u> changes in flame appearance.]**

1. Air shutter controls are located on the right side of the unit, behind facings or door, next to the glass door frame.
2. If flame is too "blue," push air shutter knob in (close) in small 1/8" increments until flame turns desired realistic "orange."
3. If flame is too "orange" or is causing sooting on viewing glass, pull air shutter knob out (open) in approx. 1/8" increments until sooting stops. IF SOOTING DOES NOT STOP, TURN OFF UNIT AND CALL YOUR MENDOTA SERVICE PERSON.

IMPORTANT: Try each new shutter setting approx. ½ hr. before making additional changes. NOTE: Changes in front burner flame can be made by re-arranging the coals and front burner air shutter opening. (See above.)

NOTICE: Initial heater start-up will cause some NON TOXIC “off gassing” of adhesives, gasket binders, paint and other materials. Most nuisance odors will be eliminated after the first two hours of operation; however, slight amounts may be present during first 24 hours of initial operation. To eliminate all nuisance odors, continuously operate this wall unit on the HIGH setting for 4 to 6 hours.

WARNING: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

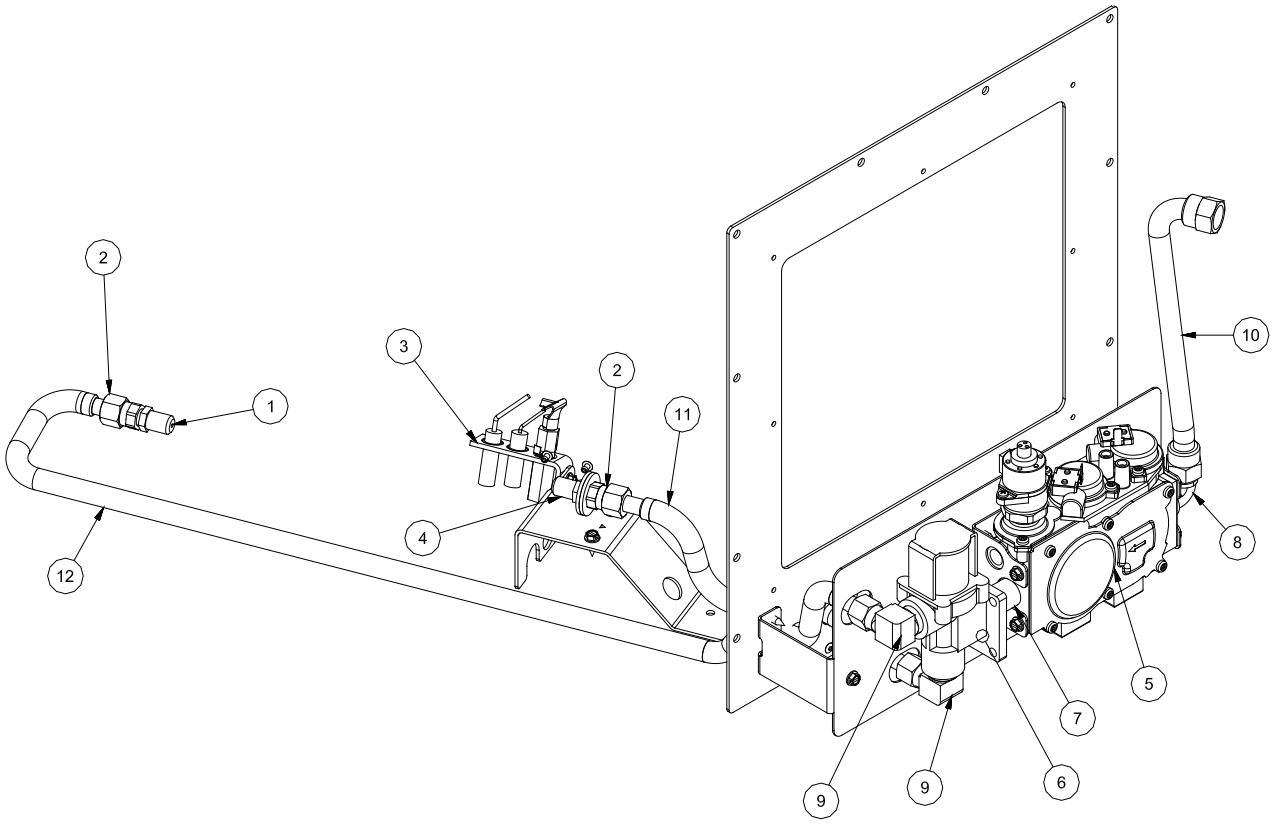
Replacement and Service Parts

Note: Glass replacement is to be done by ordering the complete Glass Frame assembly #HA-58-00029. This assembly includes all necessary gaskets, glass and steel frame. Any replacement of glass other than this method voids the warranty and my cause injury.

FV-44i VALVE ASSEMBLY REPLACEMENT PARTS

FV-44i VALVE ASSEMBLY REPLACEMENT PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	65-14-00042	Front ORIFICE, #42, NATURAL GAS
2	2	65-07-00024	1/8 NPT to Flex CF Coupler
3	1	05-04-00050	SIT Pilot Assembly
4	2	65-14-00045	Rear ORIFICE, #45 NATURAL GAS
5	1	05-02-00344	885 PROFLAME SIT VALVE
6	1	05-02-00351	Solenoid, 885 PROFLAME SPLIT FLOW VALVE
7	1	60-01-00018	NIPPLE, 3/8" NPT X 1.5" LONG, 0.493 ID, BLACK
8	1	65-07-00753	Elbow 90 Deg, 3/8 Flared Tube X 3/8" NPT Male, Brass
9	2	65-07-00012	BCF,3/8 TBE X 3/8MPT COMP ELBW
10	1	55-02-00089	3/8" FLARED FLEXTUBE, SS X 9"
11	1	55-02-00073	TUBING, 3/8" OD X 10" SS 304
12	1	55-02-00088	TUBING, 3/8" OD X 30" SS 304

Figure 2: FV-44i VALVE ASSEMBLY



BASIX SURROUNDS AND FACEPLATES INFORMATION

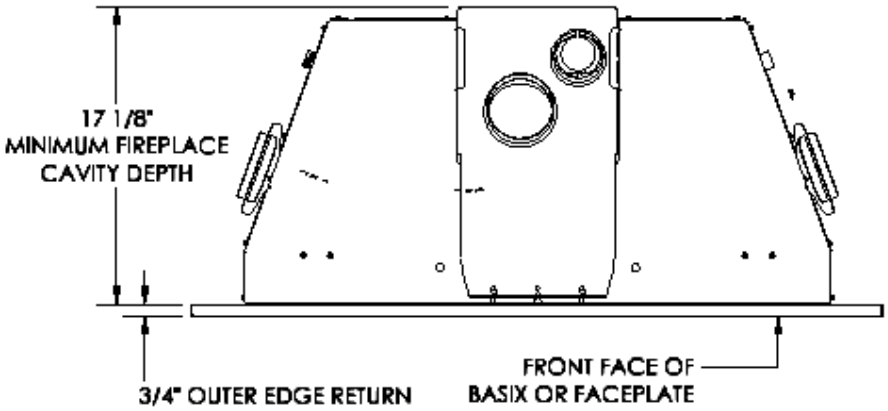
Basix Surround: The Basix is designed to attach to the fireplace insert and to cover the main fireplace opening and provide a finished aesthetic appearance. Additional decorative fronts that are designed to specifically attach to the Basix Surround are available (consult with your dealer on the various decorative fronts available for the Basix Surrounds).
The Basix Surround is available in three designs and various sizes (consult with your dealer on the various sizes available). The three Basix Surround designs are: (A) ¾" outer edge return, (B) flat (no return) outer edge and (C) 1-3/4" outer edge return.

Faceplate: The Faceplate is similar to the Basix Surrounds, except that it is specifically designed for mounting the Andover, Bentley, Homestead, Pioneer and Willow Door Kits and comes with holes in the face to mount these door kits. The Faceplate is available in three designs and various sizes (consult with your dealer on the various sizes available). The three Faceplate Surround designs are: (A) ¾" outer edge return, (B) flat (no return) outer edge and (C) 1-3/4" outer edge return.

It is important to understand the application of the three designs available for both the Basix Surround and Faceplate.

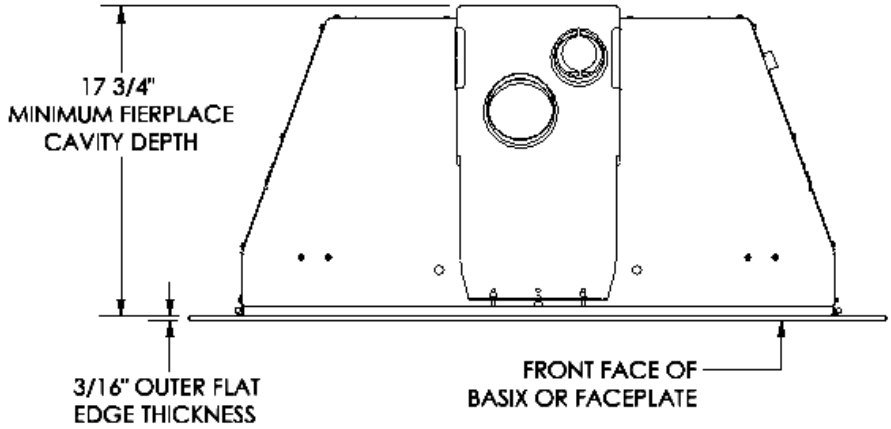
Design (A) ¾" outer edge return

The ¾" outer border return allows installation of this insert in fireplace cavities with depths greater than 17-1/8".



Design (B) Flat outer edge

The Flat outer edge border allows installation of this insert in fireplace cavities with depths greater than 17-3/4".



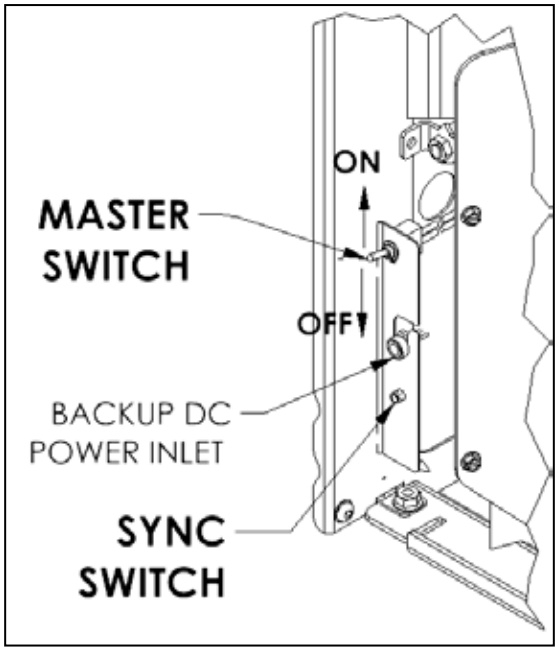
Design(C) 1-3/4" outer edge return

The 1-3/4" outer border return allows installation of this insert in fireplace cavities with depths greater than 16".

SPECIAL NOTE FOR 1-3/4" RETURN DESIGNS: The Basix and Faceplates with 1-3/4" returns may not have the Backup DC Power Inlet Port Knock Outs on the left face and left edge return. You will be required to leave the DC Power Inlet Port fitting in the factory installed location within the appliance body.

BACKUP DC POWER INLET CONNECTOR MOUNTING INFORMATION

This appliance is factory equipped with a Backup DC Power Connection Port. The Inlet Port is factory mounted on the left side directly beneath the Master On/Off switch. This Port can be moved to two convenient locations if installing a Basix Surround or Faceplate that has a ¾" outer edge return and to one convenient location if installing a Basix Surround or Faceplate that has a flat outer edge.



Both ¾" outer edge return type and flat outer edge type Basix Surround and Faceplate have two symmetric knock-outs located 2-1/4" to the left of the left inner mounting flange, as shown below. On the ¾" outer edge return type Basix Surround and Faceplate, an additional pair or knockouts are available on the left outer edge return near floor level.

Selecting the Backup DC Power Inlet Port Location

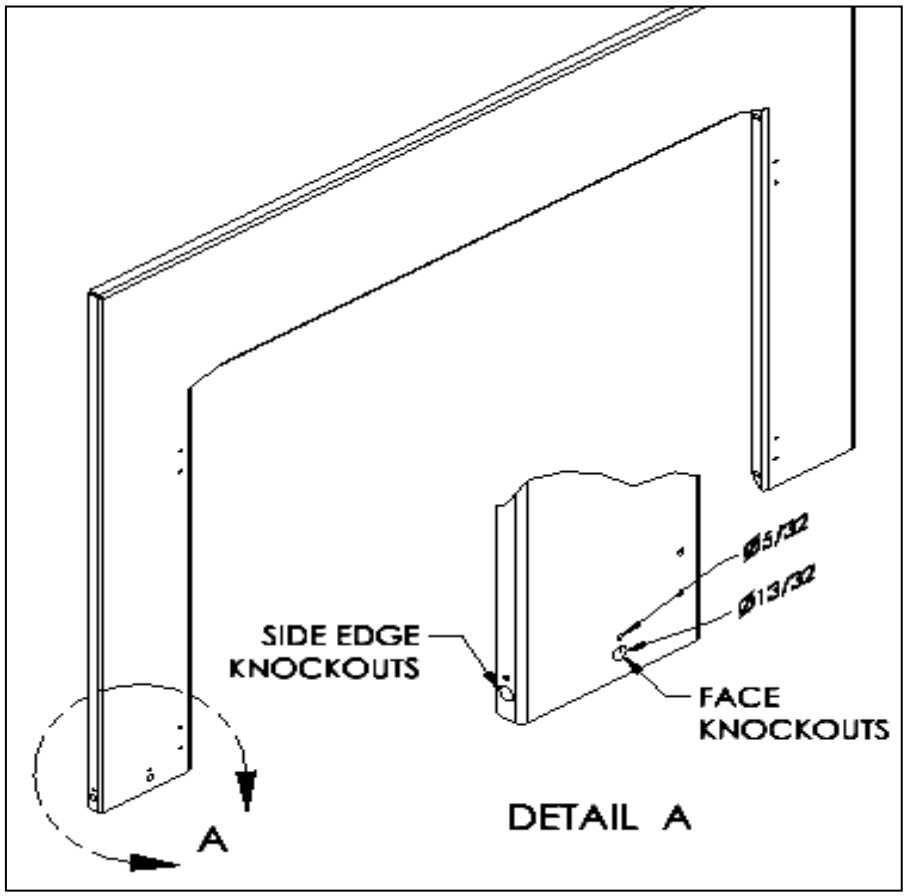
Consult with the Homeowner and determine the appropriate mounting location for the Backup DC Power Inlet Port. It is important to consider that convenient access during a power outage, when it may be dark, to the Backup DC Power Inlet port is more important than aesthetic appeal at other times. Mendota recommends that you move the Backup DC Power Inlet Port to the front face or the left edge return and instruct the homeowner how to connect the Backup Battery Pack.

Backup DC Power Inlet Port Location Options:

a. If the Inlet Port is left in the factory mounted location within the appliance body, the homeowner will be required to remove any decorative front installed on this appliance to access the Backup DC Power Inlet Port.

b. If the Inlet Port is moved to the Knock-outs located on the front face, the homeowner will be able to access the Backup DC Power Inlet Port easily without removing the decorative front. A small keyhole shaped cover plate is supplied with this appliance to hide the Backup DC Power Inlet Port when not in use. See mounting instructions, below.

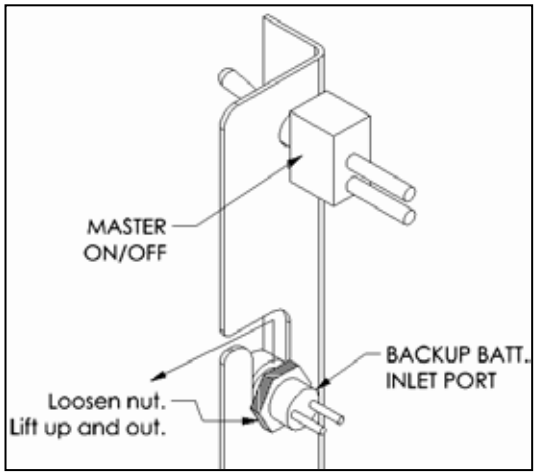
c. If the Inlet Port is moved to the Knock-outs located on the left side return, the homeowner will be able to access the Backup DC Power Inlet Port without removing the decorative front. A small keyhole shaped cover plate is supplied with this appliance to hide the Backup Battery Inlet Port when not in use. See mounting instructions, below.



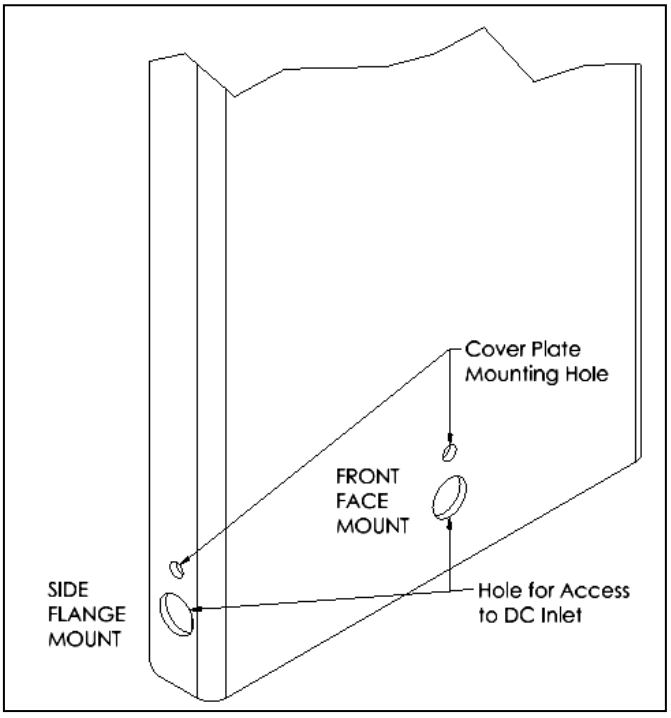
How to move the Backup DC Power Inlet Port

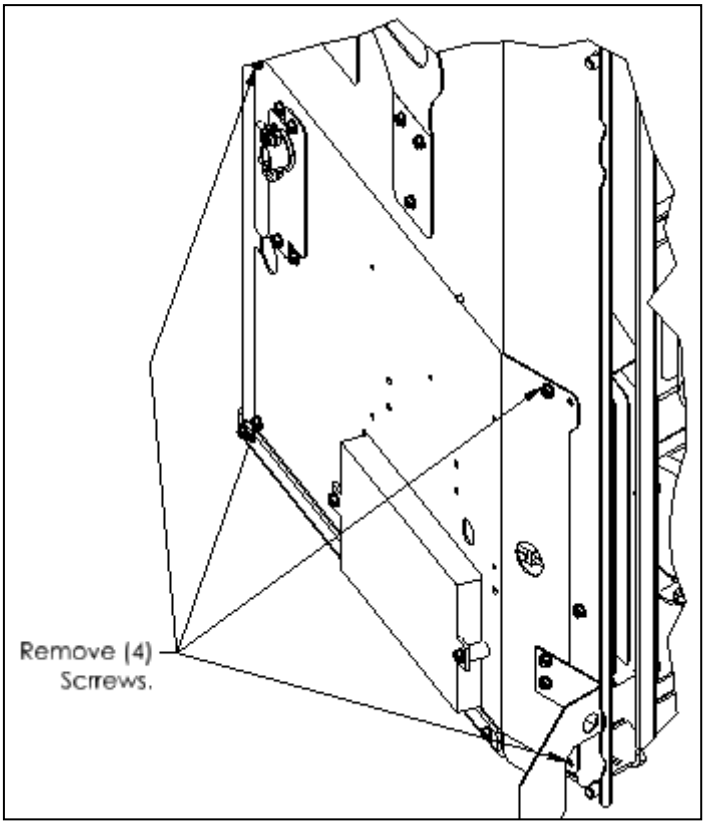
To move the Backup Battery Power Inlet Port to a new location, follow these instructions.

1. Locate the DC Power Inlet Port connector which is mounted directly beneath the Master Switch.
2. Remove the Left Control Panel by removing 4 screws (1/4' Hex). This will give you direct access to the rear of the Backup DC Inlet Port fitting.
3. Loosen and remove the securing nut for the Inlet Port fitting then lift it up and out carefully while guiding the wires through the open slot.
4. Carefully pull the Inlet Port fitting and its connecting cable out of the body of this appliance through a hole provided at the front of the Left Control Panel.
5. Determine where you wish to mount the DC Inlet Port (front face or left side return flange).

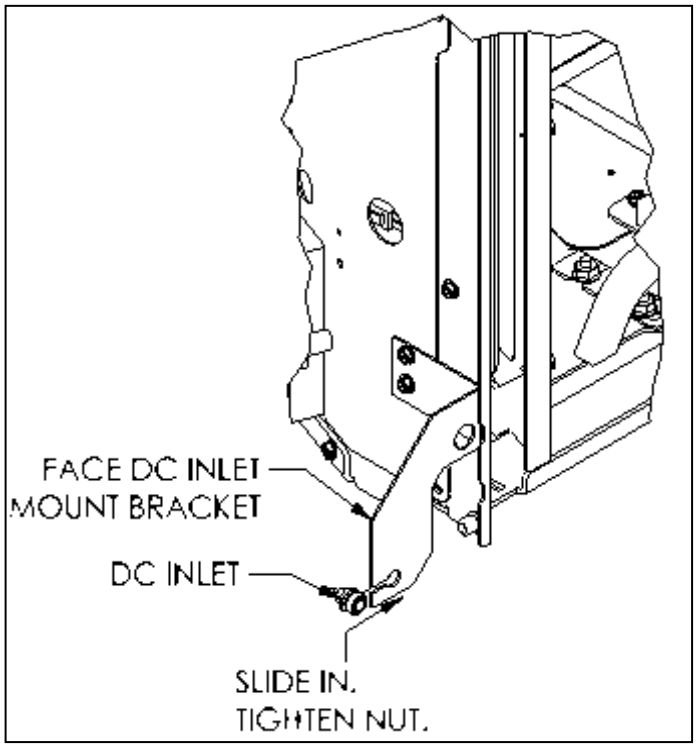


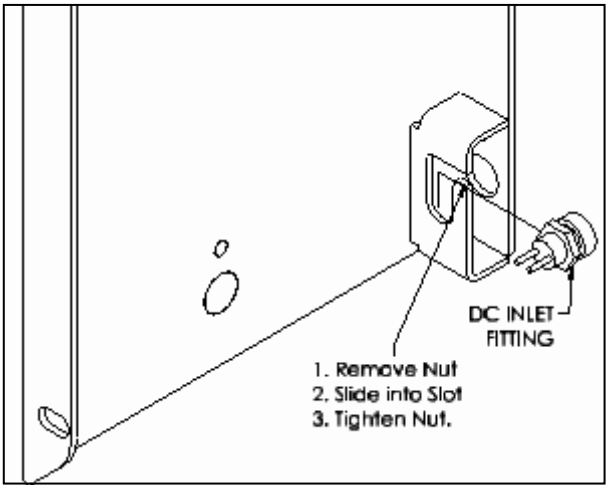
6. Push the partially cutout knockouts through carefully using a small screw driver.





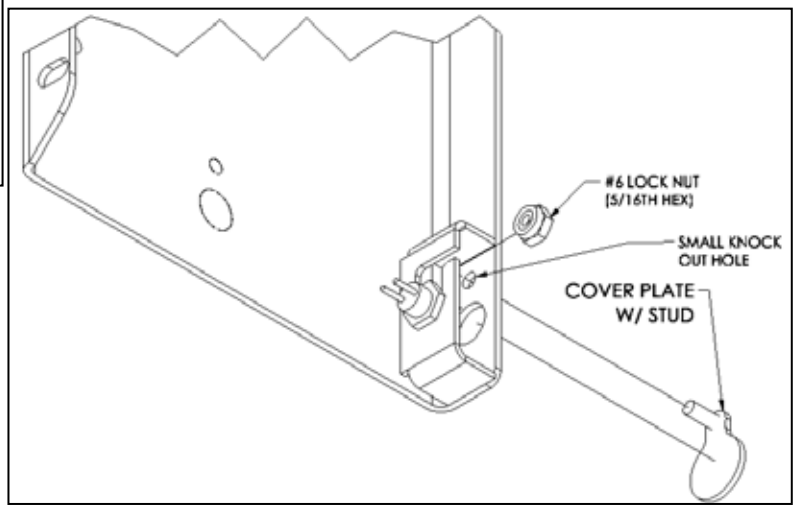
7. If mounting on the front face of the Surround/Faceplate, mount the Backup DC Power Inlet Port fitting to the Face DC Inlet Mount Bracket. See diagram, below. Tighten nut.
8. Lay the Surround/Faceplate in front of this appliance with visible face down.
9. Carefully push through and break off the two adjacent knockouts on the face or the left side return flange. The bottom knockout is 13/32" diameter and the top small knock out is 5/32" diameter.
10. If mounting on the left side flange, locate the small bracket that is welded on the back of the left leg of the Surround/Faceplate.
11. Mount the Backup DC Power Inlet Port fitting to this bracket. The inlet end of the Port fitting must face outward towards the side flange.





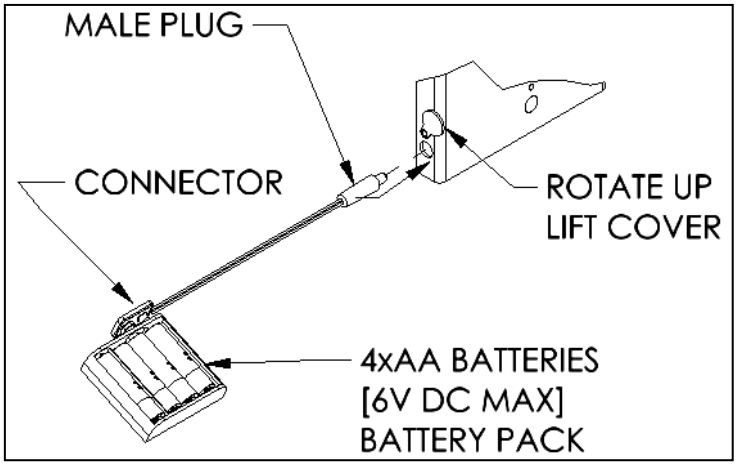
MOUNTING THE COVER PLATE

1. Insert the stud on the back of the cover plate through the small knock out hole above the DC Inlet.
2. Obtain a 5/16" box wrench. Hold the #6 lock nut on the backside of the Basix/Faceplate behind the small hole.
3. Hand thread the threaded stud on the cover plate into the lock nut until it stops.
4. Use the 5/16" box wrench to hold the nut while you rotate the cover plate clockwise.
5. Do not tighten completely. Leave loose enough to freely rotate the cover plate.



CONNECTING THE BACK UP DC POWER

If the AC power is interrupted during a power outage, plug in the battery pack (supplied with this fireplace) to the Fireplace Backup Power Inlet Port installed on Basix Surround or Faceplate. Place battery pack away from heat near the Inlet Port. Once AC power is restored, unplug and save the battery pack and harness for future use. Leaving Battery Pack plugged in with AC power on is acceptable.



W/N 02727

LISTED DIRECT VENT GAS FIREPLACE HEATER
(POELE AU GAZ HOMOLOGUÉ, À AÉRATION DIRECTE)
NOT FOR USE WITH SOLID FUEL
(NE DOIT PASÉ UTILISÉ AVEC UN COMBUSIBLE SOLIDE)

MANUFACTURED BY (FABRIQUÉ PAR): MI-T-M CORP., PEOSTA, IOWA
FOR JOHNSON GAS APPLIANCE CO. CEDAR RAPIDS, IOWA
CERTIFIED FOR CANADA HOMOLOGUE POUR LE CANADA
TESTED TO (TESTÉ AUX NORMES)
ANSI Z21.88-2005 * CSA 2.33-2005

WARNING: IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE PROPERTY DAMAGE, PERSONAL INJURY, OR LOSS OF LIFE. REFER TO THE OWNER'S INFORMATION MANUAL PROVIDED WITH THIS APPLIANCE. INSTALLATION AND SERVICE MUST BE PERFORMED BY A QUALIFIED INSTALLER. DO NOT OPERATE WITH GLASS DOOR REMOVED, CRACKED, OR BROKEN. THIS VENTED GAS FIREPLACE HEATER IS NOT FOR USE WITH AIR FILTERS. REGISTER KIT MAY BE USED.

MISE EN GARDE: INSTALLATION, RÉGLAGE, MODIFICATION, ENTRETIEN OU DÉPANNAGE NON APPROPRIÉS POURRONT CAUSER DES BLESSURES OU DES DOMMAGES MATÉRIELS. RÉFÉREZ-VOUS AU MANUEL DU PROPRIÉTAIRE FOURNI AVAC CET APPARIEL. POUR ASSISTANCE OU RENSEIGNEMENTS COMPLÉMENTAIRES, VEUILLEZ CONSULTER UN INSTALLATEUR EXPÉRIMENTÉ, UNE AGENCE DÉ DÉPANNAGE/ENTRETIEN OU COTRE COMPAGNIE GAZIERE, POUR UTILISATION AVEC LES PORTES EN VERRE CERTIFIÉE L'APPAREIL SEULEMENT. NE PAS OPÉRER AVEC LE VERRIÉRE ENLEVER, CRAQUELURE, BRISÉ.

	☐ NATURAL GAS (GAZ NATUREL)	☐ LP GAS (GAS DE PÉTROLE) LIQUÉFIÉ (GPL))
INPUT RATING (BTR/HR) 0-610m (ENTREÉ NOMINALE)	40,000	40,000
MIN. INPUT RATING (BTU/HR)0-2000ft (0-610m) (MINIMALE ENTRÉE NOMINALE)	16,300	15,300
ORIFICE 0-2000ft [0-610m]	FRONT #42 REAR #45	FRONT #55 REAR #54
ORIFICE 610-1370m	FRONT #43 REAR #46	FRONT #55 REAR #54
INPUT RATING (BTU/HR) 2000-4500ft (610-1370m) (ENTREÉ NOMINALE)	38,700	40,000
MAXIMUM OUTPUT (BTU/HR) (SORTIÉ MAXIMALE)	27,300	31,200
MANIFOLD PRESSURE (in. w.c./kPa) (PRESSION AU COLLECTEUR)	3.5	10.0
MANIFOLD PRESSURE, LOW (in. w.c./kPa) (PRESSION D'ENTRÉE MINIMALE)	1.7	6.3
MINIMUM INLET PRESSURE (in. w.c./kPa) (PRESSION D'ENTRÉE MINIMALE)	5.0	11.0

THIS APPLIANCE IS ONLY FOR USE WITH THE TYPE OF GAS INDICATED ON THE RATING PLATE AND MAY BE INSTALLED IN AN AFTERMARKET, PERMANENTLY LOCATED MANUFACTURED (MOBILE) HOME WHERE NOT PROHIBITED BY LOCAL CODES. SEE OWNER'S MANUAL FOR DETAILS. THIS APPLIANCE IS SUPPLIED WITH A CONVERSION KIT. THIS VENTED GAS FIREPLACE IS NOT FOR USE WITH A FILTER.----CET APPAREIL SERA INSTALLÉ CONFORMÉMÉNT AVEC LES CODES LOCAUX, LE CAS ÉCHÉANT. SI AUCUN CODE N'EXISTÉ, SUIVEZ LA NORME ANSI Z223.1 OULA NORME CAN/CGA (ACNOR)-B149.

MINIMUM CLEARANCES TO COMBUSTIBLE CONSTRUCTION
UNIT TO SIDEWALL 16 in. (407 mm) UNIT TOP TO 8" MANTLE 12in. (305 mm)

CAUTION: HOT WHILE IN OPERATION. DO NOT TOUCH. KEEP CHILDREN, CLOTHING, FURNITURE, AND FLAMMABLE LIQUIDS OR VAPORS AWAY.
ATTENTION: L'APPAREIL EST CHAUD LORSQU'IL FONCTIONNE. NE PASS TOUCHER L'APPAREIL. SURVIELLER LES ENFANTS. GARDER LES VÊTEMENTS, LES MEUBLES, L'ESSENCE OU AUTRES LIQUIDES À VAPEUR INFLAMMABLES LOIN DE L'APPAREIL.

ELECTRICAL RATING (COURANT NOMINAL): 120 VOLTS 60 HERTZ LESS THAN 1.5 AMPERES

DO NOT REMOVE OR COVER THIS LABEL
VEILLEZ A NE JAMES ENLEVER NI DISSIMULER CETTE ÉTIQUETTE

MFG. DATE: MODEL: FV44i SERIAL NO. WH-FV44i -

65-01-000376

MENDOTA WARRANTY QUALIFICATION & SERVICE REFERENCE FORM

As a part of Mendota's on-going program of customer satisfaction, this Form verifies proper installation and operation. It is important as a reference for future service. It insures long life and trouble-free operation of Mendota fireplaces & stoves and qualifies the owner for Mendota's lifetime limited warranty. Owner should sign Form when completed. Optionally, please register at our website at : WWW.JOHNSONGAS.COM/MENDOTA-REGISTRATION.ASP

HOME OWNER: _____ DEALER: _____

ADDRESS: _____ ADDRESS: _____

CITY/STATE/ZIP: _____ CITY/STATE/ZIP: _____

SIGNATURE: _____ PHONE: _____

MODEL **#: FV-44i** SERIAL #: _____ DATE INSTALLED: _____

GAS _____ NAT or _____ L.P.

Mendota Fireplace Inserts are sophisticated, hi-tech gas appliances. All installation and operating instructions must be carefully followed. This Insert must be installed and serviced by a qualified Mendota approved service person.

REF: MENDOTA GAS FIREPLACE INSERT

q APPROVED VENT PIPES AND VENT CAP INSTALLED - Per Manual and manufacturer's specifications

q CHECK FOR PROPER CLEARANCES TO COMBUSTIBLES - Per pipe manufacturer's specifications

q INSTALL PROPER SIZE GAS LINES - CHECK FOR GAS LEAKS - Per Manual

q CHECK FOR CORRECT GAS PRESSURE AT SUPPLY INLET

a. 5 Inches Water Column Minimum - Nat. Gas
b. 11 Inches Water Column Minimum - L.P. Gas

q CYCLE BURNERS ON/OFF FOR PROMPT IGNITION - Per "LIGHTING INSTRUCTIONS"
Burner must light IMMEDIATELY - Flame must travel promptly around "curve" & light burner.

q INSTALL LOGS AND ADJUST FLAME - Per Manual
Proper pilot flame impingement on pilot sensor rod & burner - Air shutter opening: 1/8" - 1/4" Nat. Gas - 1/2" LP

q BRIEF OWNER ON OPERATION AND MAINTENANCE OF UNIT

ÿ Light Pilot ÿ Operate Burner ÿ Explain blower "delay" operation

WARRANTY REGISTRATION

Your Name _____

Address _____

City _____ State ____ Zip _____

Dealer (Place of Purchase) _____

City _____ State ____ Zip _____

Date of Purchase _____ Serial Number _____

Purchaser's Signature _____

MENDOTA FIREPLACE INSERT, FV-44i

CUT OUT PAGE AND MAIL TO: JOHNSON GAS APPLIANCE CO., 520 E AVE. N.W. , CEDAR RAPIDS, IOWA 52405

OR REGISTER YOUR NEW INSERT AT: WWW.JOHNSONGAS.COM/MENDOTA-REGISTRATION.ASP

TAPE SHUT

POSTAGE
NEEDED

JOHNSON GAS APPLIANCE COMPANY
520 E AVENUE N.W.
CEDAR RAPIDS, IA 52405

MENDOTA EXTENDED PROTECTION AND LIMITED WARRANTY

MENDOTA FV44 DIRECT VENT FIREPLACE INSERT

Mendota Division of Johnson Gas Appliance Company, 520 E Avenue N.W. Cedar Rapids, Iowa 52405, extends this Extended Protection and Limited Warranty to the original purchaser of a Mendota FV46 Fireplace, which is limited and used under normal home conditions.

STANDARD WARRANTY:
JOHNSON GAS APPLIANCE CO., MENDOTA DIVISION, WARRANTS THAT YOUR NEW MENDOTA FIREPLACE AND ALL ITS COMPONENTS ARE FREE FROM MANUFACTURING AND MATERIAL DEFECTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF INSTALLATION. SUBJECT TO PROOF OF PURCHASE AND THE CONDITIONS AND LIMITATIONS OUTLINED, BELOW.

EXTENDED WARRANTY:
THE MAIN BURNER ASSEMBLIES ARE WARRANTED FOR A PERIOD OF 2-YEARS TO THE ORIGINAL OWNER, FROM THE DATE OF PURCHASE. SUBJECT TO PROOF OF PURCHASE AND THE CONDITIONS AND LIMITATIONS OUTLINED, BELOW.
THE HEAT EXCHANGER, COMBUSTION CHAMBER AND OUTER SHIELD OF THE MENDOTA FV46 FIREPLACE ARE WARRANTED FOR 10-YEARS TO THE ORIGINAL OWNER. SUBJECT TO PROOF OF PURCHASE AND THE CONDITIONS AND LIMITATIONS OUTLINED, BELOW.

1) This new Mendota Fireplace must be installed & serviced by a competent, authorized service contractor. It must be installed and operated at all times in accordance with the installation and operating instructions furnished with the Fireplace. All adjustments to logs, coals or burner must be made by an authorized Mendota person. Any alteration, willful abuse, accident or misuse of the product shall nullify this warranty. This warranty does not cover glass or log breakage.

   This limited warranty does not cover the cost of service calls, the cost of labor to remove or install parts covered by this limited warranty, freight or other transportation expenses, which may be incurred in connection with obtaining performances under this limited warranty. The remedy for damages as the result of any defects in this product which have been warranted herein is limited to replacement parts and does not include any incidental, indirect or consequential damages or expenses sustained in connection with the product, including damages to property, except as provided by law.

2) This warranty is non-transferable and is made to the original retail purchaser, provided the purchase was made through an authorized Mendota dealer.

   Mendota is not responsible for any damage to or malfunction of the Fireplace unless caused by a defect in material or workmanship from normal home use. Damage caused by abuse, improper installation, improper servicing, and installation by unqualified personnel or breech of conditions of this limited warranty will excuse Mendota from performance of any part of this limited warranty. Mendota has the right to investigate and inspect the exact, original Fireplace and entire installation (without any alterations or tampering) in the event a claim is made to determine whether the claimed damage or malfunction was caused by abuse, improper installation or other cause outside this warranty. Mendota is not responsible for any repairs or material purchases that have not received prior written approval from Mendota.

   NOTE: Minor warping of certain parts or discoloration is normal and is not a defect covered by this warranty. Major warping of parts can be caused by over-firing of your Mendota Fireplace. Over-firing above rated nameplate specification is as contrary to the manufacturer's instructions and may void this warranty.
   This warranty may not be extended by our representatives or any third party in any manner. The company neither assumes, nor authorizes any third party to assume, on its behalf, any other liabilities with respect to the sale of this Mendota product.

3) Mendota may at its discretion, fully discharge all obligations of this warranty by refunding the wholesale price of the defective part(s).

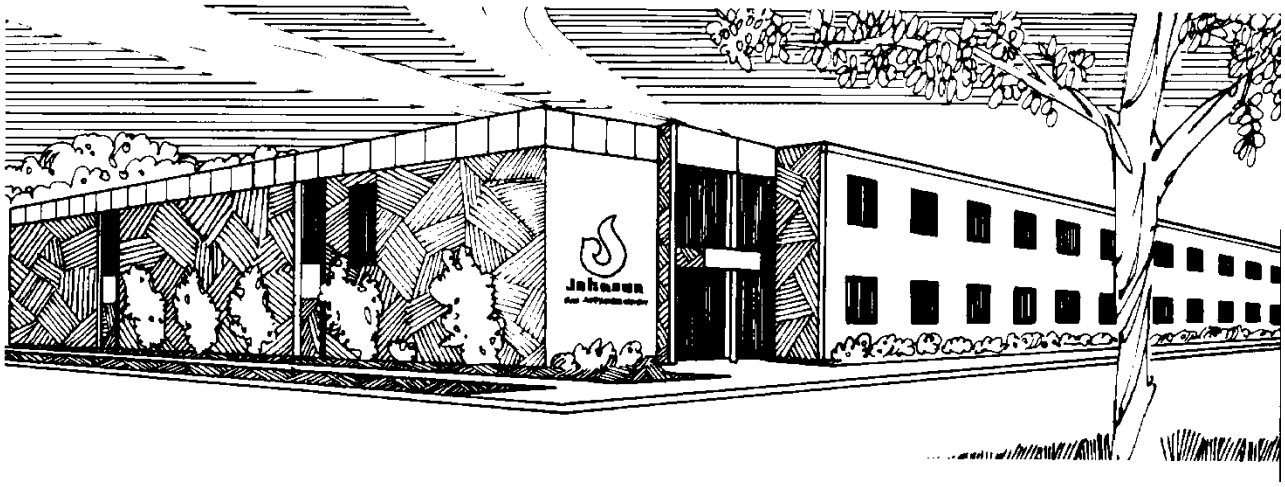
4) All other warranties - expressed or implied - with respect to the product, its components and accessories, or any obligation/liabilities on the part of the company are hereby expressly excluded. Products made by other manufacturers, sold with the Fireplace or thereafter, are not covered by this limited warranty. The use of unauthorized components will make this warranty null and void.

5) It remains the full responsibility of the owner to operate this appliance within the guidelines provided in the Installation Manual and the Operating Instructions Manual accompanying this appliance. Further, the owner shall bear full responsibility to enforce clearances to combustibles requirements and cautioning others about hot glass surfaces and hot metal surfaces. Owner, by operating this appliance, accepts that this is a heat producing appliance which has glass and steel parts that are hot enough to cause severe burns. Owner accepts that this appliance requires close monitoring of children and vulnerable individuals who are in the vicinity of this appliance when this appliance is in operation. Mendota does not assume or accept any liability claims for burns or other physical or material damages resulting from touching hot glass surfaces and hot metal surfaces that are part of this appliance or other adjacent object such as hearth pads and mantels that may heat up during operation of this appliance.

AVERTISSEMENT
Une surface vitrée chaude peut causer des brûlures.
Laisser refroidir la surface vitrée avant d'y toucher.
Ne permettez jamais à un enfant de toucher la surface vitrée.

This warranty shall be effective only if the original purchaser of the Mendota appliance is registered with Mendota Division within thirty (30) days of the date of purchase. Such registration or the failure to register shall not be deemed to create any obligation or liability by the manufacturer and this warranty with its conditions and limitations shall be the only procedure for obtaining any rights against the manufacturer and expresses the sole obligation and responsibilities of the manufacturer which are offered to the original purchaser and accepted upon purchase of the appliance.

Mendota Division, reserves the right to make changes at any time without notice, in design, material, specifications, prices and the right to discontinue styles and products.
Some states do not allow the exclusion of limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.



Johnson Gas Appliance Company
520 E Avenue N.W. - Cedar Rapids, IA 52405

Website: www.johnsongas.com or www.mendotahearth.com

Part #85-03-00800